

Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: January 12, 2003, 10:11:31 ; search time 52 seconds  
 (without alignments)  
 1710.313 Million cell updates/sec

**Title:** US-09-649-108-1  
**Perfect score:** 1511  
**Sequence:** MIFIAFVLFMTWHLNAFT.....KCGIQTDTNSKQSDTHLEFT

**Scoring table:** BLOSUM62

Xgapop	10.0	Xgapext	0.5
Ygapop	10.0	Ygapext	0.5
Fgapop	6.0	Fgapext	7.0
Delop	6.0	Delext	7.0

**Ached:** 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Command line Parameters:  
 -MQL=frame+\_p2n.model  
 -O=cgn2\_1/USP90-spoof/US-09649-108/runat\_12012003\_101121\_13898/app\_query.fasta\_1.455  
 -Db=Issued\_Patents\_NA\_QPMI=fastaap -SUFIX=\_rnl -MINMATCH=0.1 -LOOPCL=0  
 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
 -LIST=45 -DOCALIGN=200 -THR\_SCORE\_PCT=THR\_MAX=100 -THR\_MIN=0 -ALIGN=15  
 -MODE=LOCAL -OUTFORMAT=FASTA -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000  
 -USER=USP9649-108/cgn2\_1\_25\_ernat\_12012003\_101121\_13898 -NCPU=6 -ICQU=3  
 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7  
 -XGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

**database :**

Issued\_Patents\_NA:  
 1: /cgn2\_6/ptodata/2/ina/5A\_COMB\_seq:  
 2: /cgn2\_6/ptodata/2/ina/5B\_COMB\_seq:  
 3: /cgn2\_6/ptodata/2/ina/6A\_COMB\_seq:  
 4: /cgn2\_6/ptodata/2/ina/6B\_COMB\_seq:  
 5: /cgn2\_6/ptodata/2/ina/PCRS\_COMB\_seq:  
 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq:  
 \*  
 \*  
 \*  
 \*  
 \*  
 \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query	Match Length	DB ID	Description
1	311	20.6	1602	4	US-09-651-200-11 Sequence 11, Appl Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl Sequence 1, Appl
2	311	20.6	2229	4	US-09-651-200-5 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl
3	307	20.3	1020	4	US-09-651-200-7 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl
4	307	20.3	1323	4	US-09-651-200-9 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl
5	307	20.3	2691	4	US-09-651-200-1 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl
6	307	20.3	2885	4	US-09-651-200-3 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl
7	191	12.6	2627	4	US-09-649-108-1 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl
8	176.5	11.7	1491	2	US-09-404-879A-91 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl
9	176.5	11.7	1491	2	US-09-456-10-5 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl
10	176.5	11.7	1491	2	US-08-101-624-22 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl
11	176.5	11.7	1491	2	US-08-751-767A-5 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl
12	176.5	11.7	1491	3	US-08-153-262-1 Sequence 5, Appl Sequence 7, Appl Sequence 9, Appl Sequence 1, Appl Sequence 3, Appl Sequence 391, App Sequence 1, Appl Sequence 5, Appl Sequence 22, Appl Sequence 5, Appl

**RESULT 1**  
 US-09-651-200-11  
 Sequence 11, Application US/09651200  
 Patent No. 6429303

**GENERAL INFORMATION:**

APPLICANT: Green et al

TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B Lymphocyte Activation Antigen B-7 Family and

TITLE OF INVENTION: Polypeptides Encoded Thereby

FILE REFERENCE: 15966-562 (CURA-62)

CURRENT APPLICATION NUMBER: US/09/651, 200

CURRENT FILING DATE: 2000-08-30

PRIOR APPLICATION NUMBER: 60/152383

PRIOR FILING DATE: 1999-09-03

PRIOR APPLICATION NUMBER: 60/172909

PRIOR FILING DATE: 1999-12-21

PRIOR APPLICATION NUMBER: 60/183578

PRIOR FILING DATE: 2000-02-18

NUMBER OF SEQ ID NOS: 25

SOFTWARE: PatentIn Ver. 2.0

SEQ\_ID NO 11  
 LENGTH: 1602  
 TYPE: DNA  
 ORGANISM: Homo sapiens

US-09-651-200-11,  
 Alignment Scores:  
 Pred. No.: 4.76e-30  
 Score: 31.00  
 percent Similarity: 48.03%

Best Local Similarity: 30.11%  
 Query Match: 20.58%  
 DB: 4  
 Gaps: 5

Sequence 28, Appl  
 Sequence 1, Appl  
 Sequence 18, Appl  
 Sequence 18, Appl  
 Sequence 1, Appl  
 Sequence 225, Appl  
 Sequence 1, Appl  
 Sequence 18, Appl  
 Sequence 207, Appl  
 Sequence 207, Appl  
 Sequence 207, Appl  
 Sequence 31, Appl  
 Sequence 31, Appl  
 Sequence 31, Appl  
 Sequence 31, Appl  
 Sequence 202, Appl  
 Sequence 202, Appl  
 Sequence 202, Appl  
 Sequence 202, Appl  
 Sequence 30, Appl  
 Sequence 3, Appl  
 Sequence 16, Appl  
 Sequence 16, Appl  
 Sequence 3, Appl  
 Sequence 16, Appl  
 Sequence 1, Appl

ALIGMENTS

Length: 1602  
 Matches: 84  
 Conservative: 50  
 Mismatches: 131  
 Indels: 14

US-09-649-108-1 (1-290) x US-09-651-200-11 (1-1602)



GenCore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.



Gencore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

## Om protein - protein search, using sw model

Run on: January 12, 2003, 10:10:41 ; Search time 11.5924 Seconds

(without alignments)  
533.008 Million cell updates/sec

Title: US-09-649-108-10  
Perfect score: 1096  
Sequence: 1 VEYGSSNMTIECKFPVEKQLD..... HTAELVPIEPLPLAHPPNERT 210

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Number of hits satisfying chosen parameters: 262574  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_AA:\*

1: /cgn2\_6/ptodata/2/1aa/5A\_COMB.pep:\*

2: /cgn2\_6/ptodata/2/1aa/5B\_COMB.pep:\*

3: /cgn2\_6/ptodata/2/1aa/6A\_COMB.pep:\*

4: /cgn2\_6/ptodata/2/1aa/6B\_COMB.pep:\*

5: /cgn2\_6/ptodata/2/1aa/FCtUS\_Comb.pep:\*

6: /cgn2\_6/ptodata/2/1aa/backfile1.pep:\*

Pred. No. 1s the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No. Score Query Length DB ID Description

1 265.5 24.2 534 4 US-09-651-200-6 Sequence 6, Appl

2 265.5 24.2 534 4 US-09-651-200-24 Sequence 24, Appl

3 261.5 23.9 340 4 US-09-651-200-2 Sequence 1, Appl

4 261.5 23.9 441 4 US-09-651-200-4 Sequence 4, Appl

5 179 16.3 282 4 US-09-404-879A-393 Sequence 393, App

6 179 16.3 309 4 US-09-404-879A-392 Sequence 392, App

7 164 15.0 288 4 US-09-651-200-14 Sequence 14, Appl

8 159 14.5 306 2 US-09-147-772-4 Sequence 2, Appl

9 159 14.5 306 2 US-08-456-104-8 Sequence 8, Appl

10 159 14.5 306 2 US-08-101-624-25 Sequence 25, Appl

11 159 14.5 306 3 US-08-153-262-4 Sequence 4, Appl

12 159 14.5 306 3 US-08-479-744A-31 Sequence 31, Appl

13 159 14.5 306 4 US-08-280-757B-31 Sequence 4, Appl

14 159 14.5 306 4 US-09-159-133-4 Sequence 4, Appl

15 159 14.5 306 4 US-09-450-798-4 Sequence 2, Appl

16 155 14.1 288 2 US-08-147-772-2 Sequence 6, Appl

17 155 14.1 288 2 US-08-556-103-6 Sequence 6, Appl

18 155 14.1 288 2 US-08-101-624-23 Sequence 23, Appl

19 155 14.1 288 2 US-08-1751-757B-A6 Sequence 6, Appl

20 155 14.1 288 3 US-08-153-262-2 Sequence 2, Appl

21 155 14.1 288 3 US-08-479-744A-29 Sequence 29, Appl

22 155 14.1 288 4 US-08-450-798-2 Sequence 29, Appl

23 145 14.1 288 4 US-09-159-133-2 Sequence 2, Appl

24 155 14.1 288 4 US-08-205-697A-19 Sequence 19, Appl

25 155 14.1 288 4 US-08-102-522-19 Sequence 2, Appl

26 155 14.1 288 4 US-09-51-798-2 Sequence 2, Appl

27 14.1 288 4 US-08-403-253A-2 Sequence 2, Appl

RESULT 1  
US-09-651-200-6  
; Sequence 6, Application US/09651200  
; Patent No. 642303  
; GENERAL INFORMATION:  
; APPLICANT: Green et al.  
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B Cell Lineage Antigen B-7 Family and Their Use Therein  
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and Their Use Therein  
; FILE REFERENCE: 15966-562 (CURA-63)  
; CURRENT APPLICATION NUMBER: US/09-651,200  
; CURRENT FILING DATE: 2000-08-30  
; PRIOR APPLICATION NUMBER: 60/152583  
; PRIOR FILING DATE: 1999-09-03  
; PRIOR APPLICATION NUMBER: 60/172909  
; PRIOR FILING DATE: 199-12-21  
; PRIOR APPLICATION NUMBER: 60/183578  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 534  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-651-200-6  
Query Match 24.2% ; Score 265.5; DB 4; Length 534;  
Best Local Similarity 31.0%; Pred. No. 4.5e-20; Mismatches 94; Indels. 13; Gaps 4;  
Matches 65; Conservative 38; Mismatches 94; Indels. 13; Gaps 4;  
Sequence 1, Appl  
Sequence 2, Appl  
Sequence 3, Appl  
Sequence 4, Appl  
Sequence 5, Appl  
Sequence 6, Appl  
Sequence 7, Appl  
Sequence 8, Appl  
Sequence 9, Appl  
Sequence 10, Appl  
Sequence 11, Appl  
Sequence 12, Appl  
Sequence 13, Appl  
Sequence 14, Appl  
Sequence 15, Appl  
Sequence 16, Appl  
Sequence 17, Appl  
Sequence 18, Appl  
Sequence 19, Appl  
Sequence 20, Appl  
Sequence 21, Appl  
Sequence 22, Appl  
Sequence 23, Appl  
Sequence 24, Appl  
Sequence 25, Appl  
Sequence 26, Appl  
Sequence 27, Appl  
Sequence 28, Appl  
Sequence 29, Appl  
Sequence 30, Appl  
Sequence 31, Appl  
Sequence 32, Appl  
Sequence 33, Appl  
Sequence 34, Appl  
Sequence 35, Appl  
Sequence 36, Appl  
Sequence 37, Appl  
Sequence 38, Appl  
Sequence 39, Appl  
Sequence 40, Appl  
Sequence 41, Appl  
Sequence 42, Appl  
Sequence 43, Appl  
Sequence 44, Appl  
Sequence 45, Appl  
Sequence 46, Appl  
Sequence 47, Appl  
Sequence 48, Appl  
Sequence 49, Appl  
Sequence 50, Appl  
Sequence 51, Appl  
Sequence 52, Appl  
Sequence 53, Appl  
Sequence 54, Appl  
Sequence 55, Appl  
Sequence 56, Appl  
Sequence 57, Appl  
Sequence 58, Appl  
Sequence 59, Appl  
Sequence 60, Appl  
Sequence 61, Appl  
Sequence 62, Appl  
Sequence 63, Appl  
Sequence 64, Appl  
Sequence 65, Appl  
Sequence 66, Appl  
Sequence 67, Appl  
Sequence 68, Appl  
Sequence 69, Appl  
Sequence 70, Appl  
Sequence 71, Appl  
Sequence 72, Appl  
Sequence 73, Appl  
Sequence 74, Appl  
Sequence 75, Appl  
Sequence 76, Appl  
Sequence 77, Appl  
Sequence 78, Appl  
Sequence 79, Appl  
Sequence 80, Appl  
Sequence 81, Appl  
Sequence 82, Appl  
Sequence 83, Appl  
Sequence 84, Appl  
Sequence 85, Appl  
Sequence 86, Appl  
Sequence 87, Appl  
Sequence 88, Appl  
Sequence 89, Appl  
Sequence 90, Appl  
Sequence 91, Appl  
Sequence 92, Appl  
Sequence 93, Appl  
Sequence 94, Appl  
Sequence 95, Appl  
Sequence 96, Appl  
Sequence 97, Appl  
Sequence 98, Appl  
Sequence 99, Appl  
Sequence 100, Appl  
Sequence 101, Appl  
Sequence 102, Appl  
Sequence 103, Appl  
Sequence 104, Appl  
Sequence 105, Appl  
Sequence 106, Appl  
Sequence 107, Appl  
Sequence 108, Appl  
Sequence 109, Appl  
Sequence 110, Appl  
Sequence 111, Appl  
Sequence 112, Appl  
Sequence 113, Appl  
Sequence 114, Appl  
Sequence 115, Appl  
Sequence 116, Appl  
Sequence 117, Appl  
Sequence 118, Appl  
Sequence 119, Appl  
Sequence 120, Appl  
Sequence 121, Appl  
Sequence 122, Appl  
Sequence 123, Appl  
Sequence 124, Appl  
Sequence 125, Appl  
Sequence 126, Appl  
Sequence 127, Appl  
Sequence 128, Appl  
Sequence 129, Appl  
Sequence 130, Appl  
Sequence 131, Appl  
Sequence 132, Appl  
Sequence 133, Appl  
Sequence 134, Appl  
Sequence 135, Appl  
Sequence 136, Appl  
Sequence 137, Appl  
Sequence 138, Appl  
Sequence 139, Appl  
Sequence 140, Appl  
Sequence 141, Appl  
Sequence 142, Appl  
Sequence 143, Appl  
Sequence 144, Appl  
Sequence 145, Appl  
Sequence 146, Appl  
Sequence 147, Appl  
Sequence 148, Appl  
Sequence 149, Appl  
Sequence 150, Appl  
Sequence 151, Appl  
Sequence 152, Appl  
Sequence 153, Appl  
Sequence 154, Appl  
Sequence 155, Appl  
Sequence 156, Appl  
Sequence 157, Appl  
Sequence 158, Appl  
Sequence 159, Appl  
Sequence 160, Appl  
Sequence 161, Appl  
Sequence 162, Appl  
Sequence 163, Appl  
Sequence 164, Appl  
Sequence 165, Appl  
Sequence 166, Appl  
Sequence 167, Appl  
Sequence 168, Appl  
Sequence 169, Appl  
Sequence 170, Appl  
Sequence 171, Appl  
Sequence 172, Appl  
Sequence 173, Appl  
Sequence 174, Appl  
Sequence 175, Appl  
Sequence 176, Appl  
Sequence 177, Appl  
Sequence 178, Appl  
Sequence 179, Appl  
Sequence 180, Appl  
Sequence 181, Appl  
Sequence 182, Appl  
Sequence 183, Appl  
Sequence 184, Appl  
Sequence 185, Appl  
Sequence 186, Appl  
Sequence 187, Appl  
Sequence 188, Appl  
Sequence 189, Appl  
Sequence 190, Appl  
Sequence 191, Appl  
Sequence 192, Appl  
Sequence 193, Appl  
Sequence 194, Appl  
Sequence 195, Appl  
Sequence 196, Appl  
Sequence 197, Appl  
Sequence 198, Appl  
Sequence 199, Appl  
Sequence 200, Appl  
Sequence 201, Appl  
Sequence 202, Appl  
Sequence 203, Appl  
Sequence 204, Appl  
Sequence 205, Appl  
Sequence 206, Appl  
Sequence 207, Appl  
Sequence 208, Appl  
Sequence 209, Appl  
Sequence 210, Appl  
Sequence 211, Appl  
Sequence 212, Appl  
Sequence 213, Appl  
Sequence 214, Appl  
Sequence 215, Appl  
Sequence 216, Appl  
Sequence 217, Appl  
Sequence 218, Appl  
Sequence 219, Appl  
Sequence 220, Appl  
Sequence 221, Appl  
Sequence 222, Appl  
Sequence 223, Appl  
Sequence 224, Appl  
Sequence 225, Appl  
Sequence 226, Appl  
Sequence 227, Appl  
Sequence 228, Appl  
Sequence 229, Appl  
Sequence 230, Appl  
Sequence 231, Appl  
Sequence 232, Appl  
Sequence 233, Appl  
Sequence 234, Appl  
Sequence 235, Appl  
Sequence 236, Appl  
Sequence 237, Appl  
Sequence 238, Appl  
Sequence 239, Appl  
Sequence 240, Appl  
Sequence 241, Appl  
Sequence 242, Appl  
Sequence 243, Appl  
Sequence 244, Appl  
Sequence 245, Appl  
Sequence 246, Appl  
Sequence 247, Appl  
Sequence 248, Appl  
Sequence 249, Appl  
Sequence 250, Appl  
Sequence 251, Appl  
Sequence 252, Appl  
Sequence 253, Appl  
Sequence 254, Appl  
Sequence 255, Appl  
Sequence 256, Appl  
Sequence 257, Appl  
Sequence 258, Appl  
Sequence 259, Appl  
Sequence 260, Appl  
Sequence 261, Appl  
Sequence 262, Appl  
Sequence 263, Appl  
Sequence 264, Appl  
Sequence 265, Appl  
Sequence 266, Appl  
Sequence 267, Appl  
Sequence 268, Appl  
Sequence 269, Appl  
Sequence 270, Appl  
Sequence 271, Appl  
Sequence 272, Appl  
Sequence 273, Appl  
Sequence 274, Appl  
Sequence 275, Appl  
Sequence 276, Appl  
Sequence 277, Appl  
Sequence 278, Appl  
Sequence 279, Appl  
Sequence 280, Appl  
Sequence 281, Appl  
Sequence 282, Appl  
Sequence 283, Appl  
Sequence 284, Appl  
Sequence 285, Appl  
Sequence 286, Appl  
Sequence 287, Appl  
Sequence 288, Appl  
Sequence 289, Appl  
Sequence 290, Appl  
Sequence 291, Appl  
Sequence 292, Appl  
Sequence 293, Appl  
Sequence 294, Appl  
Sequence 295, Appl  
Sequence 296, Appl  
Sequence 297, Appl  
Sequence 298, Appl  
Sequence 299, Appl  
Sequence 300, Appl  
Sequence 301, Appl  
Sequence 302, Appl  
Sequence 303, Appl  
Sequence 304, Appl  
Sequence 305, Appl  
Sequence 306, Appl  
Sequence 307, Appl  
Sequence 308, Appl  
Sequence 309, Appl  
Sequence 310, Appl  
Sequence 311, Appl  
Sequence 312, Appl  
Sequence 313, Appl  
Sequence 314, Appl  
Sequence 315, Appl  
Sequence 316, Appl  
Sequence 317, Appl  
Sequence 318, Appl  
Sequence 319, Appl  
Sequence 320, Appl  
Sequence 321, Appl  
Sequence 322, Appl  
Sequence 323, Appl  
Sequence 324, Appl  
Sequence 325, Appl  
Sequence 326, Appl  
Sequence 327, Appl  
Sequence 328, Appl  
Sequence 329, Appl  
Sequence 330, Appl  
Sequence 331, Appl  
Sequence 332, Appl  
Sequence 333, Appl  
Sequence 334, Appl  
Sequence 335, Appl  
Sequence 336, Appl  
Sequence 337, Appl  
Sequence 338, Appl  
Sequence 339, Appl  
Sequence 340, Appl  
Sequence 341, Appl  
Sequence 342, Appl  
Sequence 343, Appl  
Sequence 344, Appl  
Sequence 345, Appl  
Sequence 346, Appl  
Sequence 347, Appl  
Sequence 348, Appl  
Sequence 349, Appl  
Sequence 350, Appl  
Sequence 351, Appl  
Sequence 352, Appl  
Sequence 353, Appl  
Sequence 354, Appl  
Sequence 355, Appl  
Sequence 356, Appl  
Sequence 357, Appl  
Sequence 358, Appl  
Sequence 359, Appl  
Sequence 360, Appl  
Sequence 361, Appl  
Sequence 362, Appl  
Sequence 363, Appl  
Sequence 364, Appl  
Sequence 365, Appl  
Sequence 366, Appl  
Sequence 367, Appl  
Sequence 368, Appl  
Sequence 369, Appl  
Sequence 370, Appl  
Sequence 371, Appl  
Sequence 372, Appl  
Sequence 373, Appl  
Sequence 374, Appl  
Sequence 375, Appl  
Sequence 376, Appl  
Sequence 377, Appl  
Sequence 378, Appl  
Sequence 379, Appl  
Sequence 380, Appl  
Sequence 381, Appl  
Sequence 382, Appl  
Sequence 383, Appl  
Sequence 384, Appl  
Sequence 385, Appl  
Sequence 386, Appl  
Sequence 387, Appl  
Sequence 388, Appl  
Sequence 389, Appl  
Sequence 390, Appl  
Sequence 391, Appl  
Sequence 392, Appl  
Sequence 393, Appl  
Sequence 394, Appl  
Sequence 395, Appl  
Sequence 396, Appl  
Sequence 397, Appl  
Sequence 398, Appl  
Sequence 399, Appl  
Sequence 400, Appl  
Sequence 401, Appl  
Sequence 402, Appl  
Sequence 403, Appl  
Sequence 404, Appl  
Sequence 405, Appl  
Sequence 406, Appl  
Sequence 407, Appl  
Sequence 408, Appl  
Sequence 409, Appl  
Sequence 410, Appl  
Sequence 411, Appl  
Sequence 412, Appl  
Sequence 413, Appl  
Sequence 414, Appl  
Sequence 415, Appl  
Sequence 416, Appl  
Sequence 417, Appl  
Sequence 418, Appl  
Sequence 419, Appl  
Sequence 420, Appl  
Sequence 421, Appl  
Sequence 422, Appl  
Sequence 423, Appl  
Sequence 424, Appl  
Sequence 425, Appl  
Sequence 426, Appl  
Sequence 427, Appl  
Sequence 428, Appl  
Sequence 429, Appl  
Sequence 430, Appl  
Sequence 431, Appl  
Sequence 432, Appl  
Sequence 433, Appl  
Sequence 434, Appl  
Sequence 435, Appl  
Sequence 436, Appl  
Sequence 437, Appl  
Sequence 438, Appl  
Sequence 439, Appl  
Sequence 440, Appl  
Sequence 441, Appl  
Sequence 442, Appl  
Sequence 443, Appl  
Sequence 444, Appl  
Sequence 445, Appl  
Sequence 446, Appl  
Sequence 447, Appl  
Sequence 448, Appl  
Sequence 449, Appl  
Sequence 450, Appl  
Sequence 451, Appl  
Sequence 452, Appl  
Sequence 453, Appl  
Sequence 454, Appl  
Sequence 455, Appl  
Sequence 456, Appl  
Sequence 457, Appl  
Sequence 458, Appl  
Sequence 459, Appl  
Sequence 460, Appl  
Sequence 461, Appl  
Sequence 462, Appl  
Sequence 463, Appl  
Sequence 464, Appl  
Sequence 465, Appl  
Sequence 466, Appl  
Sequence 467, Appl  
Sequence 468, Appl  
Sequence 469, Appl  
Sequence 470, Appl  
Sequence 471, Appl  
Sequence 472, Appl  
Sequence 473, Appl  
Sequence 474, Appl  
Sequence 475, Appl  
Sequence 476, Appl  
Sequence 477, Appl  
Sequence 478, Appl  
Sequence 479, Appl  
Sequence 480, Appl  
Sequence 481, Appl  
Sequence 482, Appl  
Sequence 483, Appl  
Sequence 484, Appl  
Sequence 485, Appl  
Sequence 486, Appl  
Sequence 487, Appl  
Sequence 488, Appl  
Sequence 489, Appl  
Sequence 490, Appl  
Sequence 491, Appl  
Sequence 492, Appl  
Sequence 493, Appl  
Sequence 494, Appl  
Sequence 495, Appl  
Sequence 496, Appl  
Sequence 497, Appl  
Sequence 498, Appl  
Sequence 499, Appl  
Sequence 500, Appl  
Sequence 501, Appl  
Sequence 502, Appl  
Sequence 503, Appl  
Sequence 504, Appl  
Sequence 505, Appl  
Sequence 506, Appl  
Sequence 507, Appl  
Sequence 508, Appl  
Sequence 509, Appl  
Sequence 510, Appl  
Sequence 511, Appl  
Sequence 512, Appl  
Sequence 513, Appl  
Sequence 514, Appl  
Sequence 515, Appl  
Sequence 516, Appl  
Sequence 517, Appl  
Sequence 518, Appl  
Sequence 519, Appl  
Sequence 520, Appl  
Sequence 521, Appl  
Sequence 522, Appl  
Sequence 523, Appl  
Sequence 524, Appl  
Sequence 525, Appl  
Sequence 526, Appl  
Sequence 527, Appl  
Sequence 528, Appl  
Sequence 529, Appl  
Sequence 530, Appl  
Sequence 531, Appl  
Sequence 532, Appl  
Sequence 533, Appl  
Sequence 534, Appl  
Sequence 535, Appl  
Sequence 536, Appl  
Sequence 537, Appl  
Sequence 538, Appl  
Sequence 539, Appl  
Sequence 540, Appl  
Sequence 541, Appl  
Sequence 542, Appl  
Sequence 543, Appl  
Sequence 544, Appl  
Sequence 545, Appl  
Sequence 546, Appl  
Sequence 547, Appl  
Sequence 548, Appl  
Sequence 549, Appl  
Sequence 550, Appl  
Sequence 551, Appl  
Sequence 552, Appl  
Sequence 553, Appl  
Sequence 554, Appl  
Sequence 555, Appl  
Sequence 556, Appl  
Sequence 557, Appl  
Sequence 558, Appl  
Sequence 559, Appl  
Sequence 560, Appl  
Sequence 561, Appl  
Sequence 562, Appl  
Sequence 563, Appl  
Sequence 564, Appl  
Sequence 565, Appl  
Sequence 566, Appl  
Sequence 567, Appl  
Sequence 568, Appl  
Sequence 569, Appl  
Sequence 570, Appl  
Sequence 571, Appl  
Sequence 572, Appl  
Sequence 573, Appl  
Sequence 574, Appl  
Sequence 575, Appl  
Sequence 576, Appl  
Sequence 577, Appl  
Sequence 578, Appl  
Sequence 579, Appl  
Sequence 580, Appl  
Sequence 581, Appl  
Sequence 582, Appl  
Sequence 583, Appl  
Sequence 584, Appl  
Sequence 585, Appl  
Sequence 586, Appl  
Sequence 587, Appl  
Sequence 588, Appl  
Sequence 589, Appl  
Sequence 590, Appl  
Sequence 591, Appl  
Sequence 592, Appl  
Sequence 593, Appl  
Sequence 594, Appl  
Sequence 595, Appl  
Sequence 596, Appl  
Sequence 597, Appl  
Sequence 598, Appl  
Sequence 599, Appl  
Sequence 600, Appl  
Sequence 601, Appl  
Sequence 602, Appl  
Sequence 603, Appl  
Sequence 604, Appl  
Sequence 605, Appl  
Sequence 606, Appl  
Sequence 607, Appl  
Sequence 608, Appl  
Sequence 609, Appl  
Sequence 610, Appl  
Sequence 611, Appl  
Sequence 612, Appl  
Sequence 613, Appl  
Sequence 614, Appl  
Sequence 615, Appl  
Sequence 616, Appl  
Sequence 617, Appl  
Sequence 618, Appl  
Sequence 619, Appl  
Sequence 620, Appl  
Sequence 621, Appl  
Sequence 622, Appl  
Sequence 623, Appl  
Sequence 624, Appl  
Sequence 625, Appl  
Sequence 626, Appl  
Sequence 627, Appl  
Sequence 628, Appl  
Sequence 629, Appl  
Sequence 630, Appl  
Sequence 631, Appl  
Sequence 632, Appl  
Sequence 633, Appl  
Sequence 634, Appl  
Sequence 635, Appl  
Sequence 636, Appl  
Sequence 637, Appl  
Sequence 638, Appl  
Sequence 639, Appl  
Sequence 640, Appl  
Sequence 641, Appl  
Sequence 642, Appl  
Sequence 643, Appl  
Sequence 644, Appl  
Sequence 645, Appl  
Sequence 646, Appl  
Sequence 647, Appl  
Sequence 648, Appl  
Sequence 649, Appl  
Sequence 650, Appl  
Sequence 651, Appl  
Sequence 652, Appl  
Sequence 653, Appl  
Sequence 654, Appl  
Sequence 655, Appl  
Sequence 656, Appl  
Sequence 657, Appl  
Sequence 658, Appl  
Sequence 659, Appl  
Sequence 660, Appl  
Sequence 661, Appl  
Sequence 662, Appl  
Sequence 663, Appl  
Sequence 664, Appl  
Sequence 665, Appl  
Sequence 666, Appl  
Sequence 667, Appl  
Sequence 668, Appl  
Sequence 669, Appl  
Sequence 670, Appl  
Sequence 671, Appl  
Sequence 672, Appl  
Sequence 673, Appl  
Sequence 674, Appl  
Sequence 675, Appl  
Sequence 676, Appl  
Sequence 677, Appl  
Sequence 678, Appl  
Sequence 679, Appl  
Sequence 680, Appl  
Sequence 681, Appl  
Sequence 682, Appl  
Sequence 683, Appl  
Sequence 684, Appl  
Sequence 685, Appl  
Sequence 686, Appl  
Sequence 687, Appl  
Sequence 688, Appl  
Sequence 689, Appl  
Sequence 690, Appl  
Sequence 691, Appl  
Sequence 692, Appl  
Sequence 693, Appl  
Sequence 694, Appl  
Sequence 695, Appl  
Sequence 696, Appl  
Sequence 697, Appl  
Sequence 698, Appl  
Sequence 699, Appl  
Sequence 700, Appl  
Sequence 701, Appl  
Sequence 702, Appl  
Sequence 703, Appl  
Sequence 704, Appl  
Sequence 705, Appl  
Sequence 706, Appl  
Sequence 707, Appl  
Sequence 708, Appl  
Sequence 709, Appl  
Sequence 710, Appl  
Sequence 711, Appl  
Sequence 712, Appl  
Sequence 713, Appl  
Sequence 714, Appl  
Sequence 715, Appl  
Sequence 716, Appl  
Sequence 717, Appl  
Sequence 718, Appl  
Sequence 719, Appl  
Sequence 720, Appl  
Sequence 721, Appl  
Sequence 722, Appl  
Sequence 723, Appl  
Sequence 724, Appl  
Sequence 725, Appl  
Sequence 726, Appl  
Sequence 727, Appl  
Sequence 728, Appl  
Sequence 729, Appl  
Sequence 730, Appl  
Sequence 731, Appl  
Sequence 732, Appl  
Sequence 733, Appl  
Sequence 734, Appl  
Sequence 735, Appl  
Sequence 736, Appl  
Sequence 737, Appl  
Sequence 738, Appl  
Sequence 739, Appl  
Sequence 740, Appl  
Sequence 741, Appl  
Sequence 742, Appl  
Sequence 743, Appl  
Sequence 744, Appl  
Sequence 745, Appl  
Sequence 746, Appl  
Sequence 747, Appl  
Sequence 748, Appl  
Sequence 749, Appl  
Sequence 750, Appl  
Sequence 751, Appl  
Sequence 752, Appl  
Sequence 753, Appl  
Sequence 754, Appl  
Sequence 755, Appl  
Sequence 756, Appl  
Sequence 757, Appl  
Sequence 758, Appl  
Sequence 759, Appl  
Sequence 760, Appl  
Sequence 761, Appl  
Sequence 762, Appl  
Sequence 763, Appl  
Sequence 764, Appl  
Sequence 765, Appl  
Sequence 766, Appl  
Sequence 767, Appl  
Sequence 768, Appl  
Sequence 769, Appl  
Sequence 770, Appl  
Sequence 771, Appl  
Sequence 772, Appl  
Sequence 773, Appl  
Sequence 774, Appl  
Sequence 775, Appl  
Sequence 776, Appl  
Sequence 777, Appl  
Sequence 778, Appl  
Sequence 779, Appl  
Sequence 780, Appl  
Sequence 781, Appl  
Sequence 782, Appl  
Sequence 783, Appl  
Sequence 784, Appl  
Sequence 785, Appl  
Sequence 786, Appl  
Sequence 787, Appl  
Sequence 788, Appl  
Sequence 789, Appl  
Sequence 790, Appl  
Sequence 791, Appl  
Sequence 792, Appl  
Sequence 793, Appl  
Sequence 794, Appl  
Sequence 795, Appl  
Sequence 796, Appl  
Sequence 797, Appl  
Sequence 798, Appl  
Sequence 799, Appl  
Sequence 800, Appl  
Sequence 801, Appl  
Sequence 802, Appl  
Sequence 803, Appl  
Sequence 804, Appl  
Sequence 805, Appl  
Sequence 806, Appl  
Sequence 807, Appl  
Sequence 808, Appl  
Sequence 809, Appl  
Sequence 810, Appl  
Sequence 811, Appl  
Sequence 812, Appl  
Sequence 813, Appl  
Sequence 814, Appl  
Sequence 815, Appl  
Sequence 816, Appl  
Sequence 817, Appl  
Sequence 818, Appl  
Sequence 819, Appl  
Sequence 820, Appl  
Sequence 821, Appl  
Sequence 822, Appl  
Sequence 823, Appl  
Sequence 824, Appl  
Sequence 825, Appl  
Sequence 826, Appl  
Sequence 827, Appl  
Sequence 828, Appl  
Sequence 829, Appl  
Sequence 830, Appl  
Sequence 831, Appl  
Sequence 832, Appl  
Sequence 833, Appl  
Sequence 834, Appl  
Sequence 835, Appl  
Sequence 836, Appl  
Sequence 837, Appl  
Sequence 838, Appl  
Sequence 839, Appl  
Sequence 840, Appl  
Sequence 841, Appl  
Sequence 842, Appl  
Sequence 843, Appl  
Sequence 844, Appl  
Sequence 845, Appl  
Sequence 846, Appl  
Sequence 847, Appl  
Sequence 848, Appl  
Sequence 849, Appl  
Sequence 850, Appl  
Sequence 851, Appl  
Sequence 852, Appl  
Sequence 853, Appl  
Sequence 854, Appl  
Sequence 855, Appl  
Sequence 856, Appl  
Sequence 857, Appl  
Sequence 858, Appl  
Sequence 859, Appl  
Sequence 860, Appl  
Sequence 861, Appl  
Sequence 862, Appl  
Sequence 863, Appl  
Sequence 864, Appl  
Sequence 865, Appl  
Sequence 866, Appl  
Sequence 867, Appl  
Sequence 868, Appl  
Sequence 869, Appl  
Sequence 870, Appl  
Sequence 871, Appl  
Sequence 872, Appl  
Sequence 873, Appl  
Sequence 874, Appl  
Sequence 875, Appl  
Sequence 876, Appl  
Sequence 877, Appl  
Sequence 878, Appl  
Sequence 879, Appl  
Sequence 880, Appl  
Sequence 881, Appl  
Sequence 882, Appl  
Sequence 883, Appl  
Sequence 884, Appl  
Sequence 885, Appl  
Sequence 886, Appl  
Sequence 887, Appl  
Sequence 888, Appl  
Sequence 889, Appl  
Sequence 890, Appl  
Sequence 891, Appl  
Sequence 892, Appl  
Sequence 893, Appl  
Sequence 894, Appl  
Sequence 895, Appl  
Sequence 896, Appl  
Sequence 897, Appl  
Sequence 898, Appl  
Sequence 899, Appl  
Sequence 900, Appl  
Sequence 901, Appl  
Sequence 902, Appl  
Sequence 903, Appl  
Sequence 904, Appl  
Sequence 905, Appl  
Sequence 906, Appl  
Sequence 907, Appl  
Sequence 908, Appl  
Sequence 909, Appl  
Sequence 910, Appl  
Sequence 911, Appl  
Sequence 912, Appl  
Sequence 913, Appl  
Sequence 914, Appl  
Sequence 915, Appl  
Sequence 916, Appl  
Sequence 917, Appl  
Sequence 918, Appl  
Sequence 919, Appl  
Sequence 920, Appl  
Sequence 921, Appl  
Sequence 922, Appl  
Sequence 923, Appl  
Sequence 924, Appl  
Sequence 925,

PATENT NO. 6429303

**GENERAL INFORMATION:**

- APPLICANT: Green et al
- TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B-7 Family and Polypeptides Encoded Thereby
- FILE REFERENCE: 15966-562 (CURA-62)
- CURRENT APPLICATION NUMBER: US/09/651, 200
- PRIOR APPLICATION NUMBER: 60/152383
- PRIOR FILING DATE: 1999-09-03
- PRIOR APPLICATION NUMBER: 60/172909
- PRIOR FILING DATE: 1999-12-21
- PRIOR APPLICATION NUMBER: 60/183578
- PRIOR FILING DATE: 2000-02-18
- NUMBER OF SEQ ID NOS: 25
- SOFTWARE: Patentin Ver. 2.0
- SEQ ID NO: 24
- LENGTH: 534
- TYPE: PRT
- ORGANISM: Unknown

**FEATURE:**

OTHER INFORMATION: Description of Unknown Organism: Sequence S-09-651-200-24

**Query Match** 23.9%; Score 261.5; DB 4; Length 340;  
**Best Local Similarity** 30.5%; **Pred.** No. 6.4e-20; **Matches** 64; **Conservative** 38; **Mismatches** 95; **Indels** 13; **Gaps** 4;

**Query** 4 GSNNTIEKKFPVKEQLDIAALTYWEMEDKNITOFVHGEEDLKQHSSYRQARLKLQQL 63  
**Db** 67 GTDTLHQSFSPRGESTLQNLNWLQDTPK-QLVHSTEGRDGSAYANRPLRFDD 124  
**Qy** 64 SLSNNAALDITDVKLUQDAVYRCMISGGADYKRIVKVNAPYK-----INORILVDP 117  
**Db** 125 AQGNSLRQLQRVRVADEGSFTCFVSIRDFGSAASLOVAAPIYSKPSMTLEPNKDLRPGDT 184  
**Qy** 118 VTSHEHLTCQA-EGYPKAEVINTSSDHQVLSGKTTTISKREKLFNTSTLRINTTNE 176  
**Db** 185 VT---ITCSSLRYGYPEAEVFWDGOGYPLGNVTTSQMANEGLFDVHSVRLVLGANG 341  
**Qy** 177 IFVCTFRIDPEENHTAELVPELPLAHP 206  
**Db** 241 TYSCLVRNPVLOODAHGSVITGQPMTPP 270

**RESULT** 4

US-09-651-200-4

; Sequence 4 - Application US/09651200

; Patent No. 6429303

; GENERAL INFORMATION:

- APPLICANT: Green et al
- TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B-7 Family and Polypeptides Encoded Thereby
- FILE REFERENCE: 15966-562 (CURA-62)
- CURRENT APPLICATION NUMBER: US/09/651, 200
- CURRENT FILING DATE: 2000-08-30
- PRIOR APPLICATION NUMBER: 60/152383
- PRIOR FILING DATE: 1999-09-03
- PRIOR APPLICATION NUMBER: 60/172909
- PRIOR FILING DATE: 1999-12-21
- PRIOR APPLICATION NUMBER: 60/183578
- PRIOR FILING DATE: 2000-02-18
- NUMBER OF SEQ ID NOS: 25
- SOFTWARE: Patentin Ver. 2.0
- SEQ ID NO: 4
- LENGTH: 441
- TYPE: PRT
- ORGANISM: Homo sapiens

US-09-651-200-4

**Query Match** 23.9%; Score 261.5; DB 4; Length 441;  
**Best Local Similarity** 30.5%; **Pred.** No. 9.2e-20; **Matches** 64; **Conservative** 38; **Mismatches** 95; **Indels** 13; **Gaps** 4;

**Query** 4 GSNNTIEKKFPVKEQLDIAALTYWEMEDKNITOFVHGEEDLKQHSSYRQARLKLQQL 63  
**Db** 168 GTDTLHQSFSPRGESTLQNLNWLQDTPK-QLVHSTEGRDGSAYANRPLRFDD 225  
**Qy** 64 SIGNALAQITDVKLUQDAVYRCMISGGADYKRIVKVNAPYK-----INORILVDP 117  
**Db** 226 AQGNSLRQLQRVRVADEGSFTCFVSIRDFGSAASLOVAAPIYSKPSMTLEPNKDLRPGDT 285  
**Qy** 118 VTSHEHLTCQA-EGYPKAEVINTSSDHQVLSGKTTTISKREKLFNTSTLRINTTNE 176  
**Db** 286 VT---ITCSSLRYGYPEAEVFWDGOGYPLGNVTTSQMANEGLFDVHSVRLVLGANG 341  
**Qy** 177 IFVCTFRIDPEENHTAELVPELPLAHP 206  
**Db** 342 TYSCLVRNPVLOODAHGSVITGQPMTPP 371

**RESULT** 5

US-09-404-879A-393

; Sequence 393 - Application US/09404879A

; Patent No. 6468346

US-09-651-200-2

GenCore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

## OM protein - nucleic search, using frame\_plus\_p2n model

Run on: January 12, 2003, 11:11:11 ; Search time 62 Seconds

(without alignments)  
2058.548 Million cell updates/sec

## Title: US-09-649-108-1

Perfect score: 1511

1 MRFIAVFIIFTWHLNAFT..... KCGIQDTNSKKQSDTHLEET 290

## Scoring table: BLOSUM62

xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

389086 seqs, 220051671 residues

## Total number of hits satisfying chosen parameters:

778172

## Command line parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

## Post processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

-LOPCL=0 -LOPEXT=0 -UNITS=bits -START=1 -END=1 MATRIX=blosum62  
-DB=Published\_Applications\_NA -OFMT=fasta -SUFFIX=rnpb -MINMATCH=0.1  
-Q=/cgn2\_1/USPRO\_spool/US0649108/runat\_12012003\_101123\_13963/app\_query.fasta\_1.455  
-THR\_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT\_PTO -NORMEXT -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=200000000 -USER=US0649108 @CGN\_1\_33 @runat\_12012003\_101123\_13963  
-ICPU=6 -ICPU=3 NO\_XLXY -NO\_MMAR -LARGEQUERY -NEG\_SCORES=0 -WAIT -LONGLOG  
-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

## Database :

Published\_Applications\_NA: \*

```
1: /cgn2_6/ptodata/2/pubpna/us07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/JS06_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/JS06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/JS07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/JS08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/JS08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/JS09_NEW_PUB.seq:*
10: /cgn2_6/ptodata/2/pubpna/JS05_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/JS10_NEW_PUB.seq:*
12: /cgn2_6/ptodata/2/pubpna/JS10_PUBCOMB.seq:*
13: /cgn2_6/ptodata/2/pubpna/JS60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/2/pubpna/JS60_PUBCOMB.seq:*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1511	100.0	873	10 US-09-910-174A-22
2	1511	100.0	1553	12 US-10-002-775-3
3	1511	100.0	1604	10 US-09-875-338-1
4	1511	100.0	3575	10 US-09-796-858-41

## ALIGNMENTS

## RESULT 1

US-09-910-174A-22

; Sequence 22, Application US/09910174A

; Patent No. US20020106730A1

## GENERAL INFORMATION:

; APPLICANT: Corle, Anthony J.

; APPLICANT: Fraser, Christopher C.

; APPLICANT: Manning, Stephen

; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7

; FAMILY AND USES, THEREOF

; FILE REFERENCE: 3500/236924

; CURRENT APPLICATION NUMBER: US/09-910-174A

; CURRENT FILING DATE: 2001-07-20

; PRIORITY APPLICATION NUMBER: US/09-620,461

; PRIORITY FILING DATE: 2000-07-20

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: FASTSEQ for Windows Version 4.0

; LENGTH: 873

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-910-174A-22

Alignment Scores: 5.33e-175 Length: 873  
 Pred. No.: 1511.00 Matches: 290  
 Score: 1511.00 Conservative: 0  
 Percent Similarity: 100.0% Mismatches: 0  
 Best Local Similarity: 100.0%

Query Match: 100.00% Indels: 0 Gaps: 0 ; APPLICANT: Nelly Malekhovich  
DB: ; TITLE OF INVENTION: NOVEL B7-4 MOLECULES AND USES THEREFOR  
US-09-649-108-1 (1-290) x US-09-910-174A-22 (1-873) ; FILE REFERENCE: GNN-004ADV  
; CURRENT APPLICATION NUMBER: US/10/002-775  
QY 1 MetArgIlePheAlaValPhenLePheMetThrTyTrpHisLeuLeuAsnAlaPheThr 20 ; PRIORITY FILING DATE: 2000-08-23  
Db 1 ATGAGCATATTTGCCTCTTATATCAGACTTGCAATTGGCTGAAGCATTACT 60 ; PRIORITY APPLICATION NUMBER: US 09/644, 934  
QY 21 ValThrValProLysAspLeuTyrrValTyrrValGlutYrGlySerAsnMetThrIleGluCys 40 ; PRIORITY FILING DATE: 1999-08-23  
Db 61 GTCACCGCTCCAAAGGACCTATATGTTGAGTAGTGTAGCATATGACAATGATGATGC 120 ; NUMBER OF SEQ ID NOS: 11  
QY 41 LysPheProValGluLysGlnLeuAspLeuAlaIleLeuValTyrrPheGlu 60 ; SOFTWARE: Patentin Ver. 2.0  
Db 121 AAATCCAGTAAACAAACANTAGACCTGGCTGACTAATGTCATATGGAAATGG 180 ; SEQ ID NO 3  
QY 61 AspLysAsnIleIleGlnPheValHisGlyGluGluAspLeuLysValGlnHissSerSer 80 ; LENGTH: 1553  
D' 181 GATAAACATATTCATGTCATGGCATGGAGAGGAGACCGAAGGTTCACTAGTAGC 240 ; TYPE: DNA  
QY 81 TyrArgGlnArgGalaArgLeuLeuLysAspGlnLeuSerLeuGlyAsnAlaIleLeuGln 100 ; ORGANISM: Homo sapiens  
Db 241 TACAGACAGAGGCCGGCTGTTGAGGACAGCCCTCCCTGGAAATGCTGCACTTCAG 300 ; FEATURE:  
QY 101 IleThrAspValLysLeuGlnAspAlaGlyValTyrrArgCysMetIleSerTyrrGlyGly 120 ; NAME/KEY: CDS  
Db 301 ATCACAGATGGAATATGCAAGGATGCAAGGGCTGACCGCTGATGANCAGCTATGGGTG 360 ; LOCATION: (53)..(922)  
QY 121 AlaAspTYrIleSargIleIleThrValLysValAsnAlaProTrasLysIleAsnGlnArg 140 ; US-10-002-775-3  
Db 361 GCGCAGTACAAGGCAATTACGTGGAAGTCATGGCCCATACAAATCACAAAG 420 ; Alignment Scores:  
QY 141 IleLeuValValAspProValThrSerGluLysGluLeuThrCysGlnAlaGluGlyTyr 160 ; Pred. No.: 1.27e-174 Length: 1553  
Db 421 ATTGGCTGTGATCAGTCRCCCTCTGAACTGACTGAGTGTAGGCTGAGGGCTAC 480 ; Score: 1511.00 Matches: 290  
QY 161 ProLysAlaGluValIleThrPheSerSerAspHisIleValLeuAsnAlaPheThr 20 ; Percent Similarity: 100.00% Conservative: 0  
Db 481 CCCAGGCCGAGTCATCCTGGACAGCAGCTGACTCTGACTGTTAGACCACC 540 ; Best Local Similarity: 100.00% Mismatches: 0  
QY 181 ThreThrAsnSerLysArgIleGluLysLeuPheAsnValThrSerThrLeuArgIleAsn 200 ; Indels: 0  
Db 541 ACCACAAATCCAAAGGAGAGGAAGCTTCAAGTGACGACACTGAGAACATCAAC 600 ; Gaps: 0  
QY 201 ThrThrThrAsnGluIlePhePheCysThrPheArgArgLeuAspProGluLysAsn 220 ;  
Db 601 ACCACAACTGAGTTCTACTGACTTTAGGAGATGATCTGAGGAAGAACAT 660 ;  
QY 221 ThrAlaGluLeuValIleProGluLeuProLeuAlaHisProProAsnGluArgThrHis 240 ;  
Db 661 ACACGCTGAATTGGTCATCCAAATGGACACTACCTCTGGCACATCCCTCAAATGAAAGGACTCAC 720 ;  
QY 241 LeuValIleLeuGlyIleLeuLeuCysLeuGlyValAlaLeuThrPheIlePheArg 260 ;  
Db 721 TTGGTATTCTGGAGGCCATCTTAATGCCCCTGGTAGACTGACATTCATCTTCCG 780 ;  
QY 261 LeuArgLysGlyArgMetAspValLysCysGlyIleGlnAspThrAsnSerLys 280 ;  
Db 781 TTAAAGAAAGGGAGAGTGTGATCTGGCAATGTCATCCAAAGATCACAACTAAC 840 ;  
RESULT 2 ;  
QY 281 LysGlnSerAspThrHisLeuGluGluThr 290 ;  
Db 841 AACCAAAGTGTACACATGGAGAGACG 870 ;  
; Sequence 3 Application US/10002775  
; Patent No. US20020102651A1  
; GENERAL INFORMATION:  
; APPLICANT: Gordon Freeman  
; APPLICANT: Vassiliki Boussioutis  
; APPLICANT: Tatyana Chernova



```

; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/572,002
; PRIOR FILING DATE: 2000-05-14
; PRIOR APPLICATION NUMBER: 09/557,993
; PRIOR FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 09/559,596
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: 09/605,565
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: 09/365,164
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/630,334
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: 09/665,666
; PRIOR FILING DATE: 2000-09-20
; NUMBER OF SEQ ID NOS: 50
; SEQ ID NO: 41
; LENGTH: 3575
; TYPE: DNA
; ORGANISM: Homo sapiens
0. ; -796-858-41

Alignment Scores:
Pred. No.: 4.46e-174 Length: 3575
Score: 1511.00 Matches: 290
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-09-649-108-1 (1-290) x US-09-796-858-41 (1-3575)

Qy 1 MetArgIlePheAlaValPheIlePheMetThrTyTrpHisLeuLeuAsnAlaPheThr 20
Db 59 ATGAGGATATTTGCCTCTTATATCAGCTACTGGATTGTGCTGAACGCCATTAC 118
Qy 21 ValThrValProLySAspLeuTyRValVaLgluTyGlySerAsnMetThrIleGluCys 40
Db 119 GTCACTGTCACAAGACCTATATGTTGAGTAGTGTAGCATATGACATTGATGC 178
Qy 41 LysPheProValGluLysGlnLeuAspLeuAlaAlaLeuIleValTyRTrpGluMetGlu 60
Db 179 AAATCCCACTGAGAAACCAATTAGACCTGCTGACTTAATGTCATTGGAAATGGG 238
Qy 61 AspLysAsnIleIleGlnPheValHisGlyGluGluAspLeuLysValGlnHissSer 80
Db 239 GATAAGACATATTCAATTGTTGATGGAGAGACCTGAGGTTCAAGATAGTAGTCAG 298
Q: 81 TyrAGGlnIargAlaArgLeuLeuLysAspIleSerIleGlyAsnAlaAlaLeuGln 100
Db 299 TACAGACAGAGGCCGGCTGAGGACAGCTCCGGAAATGCGACATTCAG 358
Qy 101 IleThrAspValLysLeuGlnAspAlaGlyValTyArgCysMetIleSerTyRGlgy 120
Db 359 ATCACAGATGGAATGCGAGATGCGCTGATCGATGATCAGCTATGTTGGT 418
Q: 121 AlaAspTyrlsAspIleIleGlnPheValAsnAlaProTyrsAsnLysIleAsnGlnArg 140
Db 419 GCGCACTACAGCGAAATTCTGTGAAGTCATGCCCATACAAATCAACAAAAGA 478
Qy 141 IleLeuIleValAspProValThrSerGluLysGluLeuThrCysGlnAlaGluGlyTyR 160
Db 479 ATTCTTGTTGTTGATGATCAGTCACCTGTGACAGCTGAGGCGAGGCTAC 538
Qy 161 ProLySAlaGluValIleThrPheSerSerAspHisGlnValLeuSerGlyLysIleThr 180
Db 539 CCCAGGCCGAGTCATCTGGACAGCAGCTAACGCTCTGAGTGAAGGCAACC 598
Qy 181 ThrThrAsnSerLysArgGluLysLeuPheAsnValThrSerIleLeuArgIleAsn 200
Db 599 ACCACCAATTCCAAAGAGAGGAGGAAGCTTCACTGTGACCAAGCAGCACTGAGATCAAC 658
Q: 201 ThrThrThrAsnGluLePheThrCysThrPheAspGargLeuAspProGluGluAsnHis 220

; RESULT: 5
; Sequence 3, Application US/028875338
; Patent No. US20020095024A1
; GENERAL INFORMATION:
; APPLICANT: MIKESELL, GLEN E.
; APPLICANT: CHANG, HAN
; APPLICANT: FINGER, JOSHUA N.
; APPLICANT: YANG, GUCHEN
; APPLICANT: LU, PIN
; APPLICANT: ZHOU, XIA-DI
; APPLICANT: PEACH, ROBERT
; TITLE OF INVENTION: B7 RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR
; TITLE OF INVENTION: IMMUNOMODULATION
; FILE REFERENCE: 3053-4071US2
; CURRENT APPLICATION NUMBER: US/09/875, 338
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: 60/272,107
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/209, 811
; PRIOR FILING DATE: 2000-06-06
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO: 3
; LENGTH: 3600
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-875-338-3

Alignment Scores:
Pred. No.: 4.51e-174 Length: 3600
Score: 1511.00 Matches: 290
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-09-649-108-1 (1-290) x US-09-875-338-3 (1-3600)

Qy 1 MetArgIlePheAlaValPheIlePheMetThrTyTrpHisLeuLeuAsnAlaPheThr 20
Db 93 ATGAGGATATTTGCCTCTTATATCAGCTACTGGCTTGGCAATTGCGAAGGCAATT 152
Qy 21 ValThrValProLySAspLeuTyRValValGluTyGlySerAsnMetThrIleGluCys 40
Db 153 GTCACGGTTCCCAAGGACCTATATGTTGAGTAGTGTGATGCTGACATATGACATTGATGC 212
Qy 41 LysPheProValGluLysGlnLeuAspLeuAlaAlaLeuIleValTyRTrpGluMetGlu 60
Db 213 AAATCCCACTGAGAAACAAATTAGACCTGCTGCACTAATGTCATTGCGAAATGGAG 272
Qy 61 AspLysAsnIleIleGlnPheValHisGlyGluGluAspLeuLysValGlnHissSer 80
Db 273 GATAAGACATATTCAATTGTTGTCATGGAGAGGACCTGAGGTTCACTGACATAGTAGC 332

```

QY 81 TyrArgGlnGalaArgLeuLeuLysAspGlnIleUserLeuGlyYasNalaAlaLeuGln 100  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 333 TACAGACAGAGGCCCGCTGTGAGGACCGTCCTCCGGAAATGCTGCACTTCAG 392  
 QY 101 IleThrAspVallysLeuGlnAspAlaGlyValtyArgCysMetIleSerIleTyrGly 120  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 393 ATCACAGATGTGAATTGGAGGATGCGAGGTGTTACCGCGTGATGATCAGTATGGTGT 452  
 QY 121 AlaAspTyrLysArgIleThrValysValaLysAlaProTyrsLysIleAsnGlnArg 140  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 453 GCGGACTACAAAGGGCAATTACTGTAAGCTGACCCATACAAATCACACAAAGA 512  
 QY 141 IleLeuValValAspProValThrSerGluHisGluLeuThrCysGlnAlaLuglyTyr 160  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 513 ATTGCGGTTGTCATGCCACTCACTCTGACAGACTGACACTGAGCTGAGGGCTAC 572  
 QY 161 ProLysAlaGluValleTerPheThrSerSerAspHisGlnValLeuSerGlyIleThr 180  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 573 CCCAGGCCGAATCATCTGGAGAACGACTATCTGAGTGCACATCAAGTCTGAGTGAAG 632  
 181 ThrThrAsnSerLysArgGluGlyLysLeuPheAsnValThrSerThrIleAglEasn 200  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 633 ACCACCAATTCAGAGGAGGAGGAGAAGCTTCAATGACCGACACTGARATCAC 692  
 QY 201 ThrThrThrAsnGluIlePheThrCysThrPheArgGluLeuAspProGluGluAsnHis 220  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 693 ACACACAATCTAGATGATTCTACTGACTTCTAGGAGTTAGATCTCCGGAGAACAT 732  
 QY 221 ThraLaGluLeuValleProGluLeuProLeuAlaHisProAspGluIleGlyThr 240  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 753 ACGCTGATGTCATCCAGACTACCTCTGCACATCTCCAAATGAAAGACTCAC 812  
 QY 241 LeuValIleIleGlyAlaLeuLeuLysLeuGlyValAlaLeuThrPheIlePheArg 260  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 813 TTTGTAATCTGGAGCACTCTATTAGCTCTGGTAGACTGACACTCACTTCGGT 872  
 QY 261 LeuArgLysGlyArgMetMetAspVallysLysCysGlyIleGlnAspThrAsnSerLys 280  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 873 TTTAGAAAAGGGAAATGATGGTGTGAAATAATGTCGCATCCAGATCAACTCAG 932  
 QY 281 LysGlnSerAspPheThrIleLeuGluIle 290  
 ||||| ||||| ||||| ||||| ||||| |||||  
 Db 933 AACCAAATGATCACATTTGGAGGAGACG 962  
 RESULT 6  
 US-10-002-775-1  
 Sequence 1, Application US/10002775  
 Patent No. US20020102651A1  
 GENERAL INFORMATION:  
 APPLICANT: Gordon Freeman  
 APPLICANT: Vassiliuk Boussiotis  
 APPLICANT: Tatjana Chernova  
 APPLICANT: Nelly Malenkovich  
 TITLE OF INVENTION: NOVEL B7-4 MOLECULES AND USES THEREFOR  
 CURRENT APPLICATION NUMBER: US/10/002,775  
 CURRENT FILING DATE: 2001-11-02  
 PRIOR APPLICATION NUMBER: US 09/644,934  
 FILE REFERENCE: GNN 004ADV  
 PRIORITY FILING DATE: 2000-08-23  
 PRIORITY APPLICATION NUMBER: 60/150,390  
 PRIORITY FILING DATE: 1999-08-23  
 NUMBER OF SEQ ID Nos: 11  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 1  
 LENGTH: 968  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: (59)..(793)  
 US-10-002-775-1  
 Alignment Scores:  
 Pred. No.: 4.69e-135 Length: 968  
 Score: 1184.00 Matches: 227  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 78.36% Indels: 0  
 DB: 12 Gaps: 0  
 US-09-649-108-1 (1-290) x US-10-002-775-1 (1-968)  
 QY 1 MetArgIlePheAlaValPheIlePheMetThrTyrThrPheIleLeuAsnAlaPheThr 20  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 59 ATGAGATATGTCGTCGCTTATATCAGTACCTACTGCGATTTGCTGACGCATTACT 118  
 QY 21 ValThrValProLysAspIlePheTyValValGluIlyrglSerAsnMetThrIleGluCs 40  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 119 GTCACGGTTCAGGACCCATATCTGTTAGAGTAGTGTGAGCAATATGACAATATGACAATGATC 178  
 QY 41 LysPheProValGluGlyLysIleAsnLeuAspLeuAlaLeuIleValtyrrPglMetGlu 60  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 179 AAATPCCGNTAGAAACAAATTAGACCCGGCTGCACTAATGCTATGGAAATGGAG 238  
 QY 61 AspLysAspIleIleGlyIlePheValHisGlyGluGluAspLeuIysValGlnHisSer 80  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 239 GATAGAACATTCAATTCTGTCATGGCATGGAGGAGACCTGAAGGTTACGATGAGTAC 298  
 QY 81 TyrArgGlnGalaArgLeuLeuLysAspGlnIleUserLeuGlyIleAsnAlaLeuGln 100  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 299 TACAGACAGGGCCGGCTGTGAGGAGTCAGGCTGACGGTGTACCGCTCTGGAAATGCTGCACTTCAG 358  
 QY 101 IleThrAspVallysLeuGlnAspAlaGlyValtyArgCysMetIleSerIleTyrGly 120  
 ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 359 ATCACAGATGTAATTGAGGATGAGCTGAGGTCAGCTGACATGACTACATGCTGAGGCTAC 418  
 QY 121 AlaAspTyrLysArgIleThrValysValaLysAlaProTyrsLysIleAsnGlnArg 140  
 ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 419 GCCGACTACAGGCAATTCTGTCATGGCTGAGGAGACCTGAAGGCTGAGGCTAC 478  
 QY 141 IleLeuValValAspProValThrSerGluHisGluIleLeuIleThrCysGlnAlaLuglyTyr 160  
 ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 479 ATTGCGGTTGTCATGCCACTCACTCTGAGCTACATGACTACATGCTGAGGCTAC 538  
 QY 161 ProLysAlaGluValleTerPheThrSerSerAspHisGlnValLeuSerGlyIleThr 180  
 ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 539 CCCAGGCCGAAGCTCATCTGGACAAAGCTGACATGACTACATGCTGAGGCTAC 598  
 QY 181 ThraLaGluLeuVallePro 227  
 ||||| ||||| ||||| ||||| |||||  
 Db 599 ACCACCAATTCAGAGGAGACCTGAGCTGAGGAGCTACATGCTGAGGCTAC 658  
 QY 201 ThrThrAsnGluIlePheThrCysThrPheArgGluLeuAspProGluGluAsnHis 220  
 ||||| ||||| ||||| ||||| ||||| |||||  
 Db 659 ACAACAACTATGAGATTCTACTGACTTCTAGGAGATAGTCTCTGGAAACCAT 718  
 QY 221 ThraLaGluLeuVallePro 227  
 ||||| ||||| ||||| ||||| |||||  
 Db 719 ACAGCTGATTTGGTCATCCCC 739  
 RESULT 7  
 US-09-875-338-4  
 Sequence 4, Application US/09875338  
 Patent No. US20020095024A1  
 GENERAL INFORMATION:  
 APPLICANT: MIKESELL, GLEN E.  
 APPLICANT: CHANG, HAN  
 APPLICANT: FINGER, JOSHUA N.  
 APPLICANT: YANG, GUOHEN  
 APPLICANT: LU, PIN  
 APPLICANT: ZHOU, XIA-DI  
 APPLICANT: PECH, ROBERT  
 TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR  
 FILE REFERENCE: 3053-4071052



FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: all "n" positions  
; OTHER INFORMATION: n=a, C, G, or T  
; US-09-796-858-43

Alignment Scores:  
Pred. No.: 1.38E-103 Length: 891  
Score: 925.50 Matches: 191  
Percent Similarity: 79.36% Conservative: 32  
Best Local Similarity: 67.9% Mismatches: 54  
Query Match: 61.25% Index: 7  
DB: 10 Gaps: 3

US-09-796-858-43 (1-891)

Sequence 43, Application US/09796858  
; Patient No. US2002005139A1

GENERAL INFORMATION:

APPLICANT: Holtzman, Douglas

TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, FILE REFERENCE: 7833-226-999

CURRENT FILING DATE: 2001-03-01

PRIOR APPLICATION NUMBER: 09/223, 094

PRIOR FILING DATE: 1998-12-30

PRIOR APPLICATION NUMBER: 09/223, 546

PRIOR FILING DATE: 1998-12-30

PRIOR APPLICATION NUMBER: 09/224, 246

PRIOR FILING DATE: 1998-12-30

PRIOR APPLICATION NUMBER: 09/312, 359

PRIOR FILING DATE: 1999-05-14

PRIOR APPLICATION NUMBER: 09/336, 536

PRIOR FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 09/342, 687

PRIOR FILING DATE: 1999-06-29

PRIOR APPLICATION NUMBER: 09/399, 723

PRIOR FILING DATE: 1999-09-20

PRIOR APPLICATION NUMBER: 09/471, 179

PRIOR FILING DATE: 1999-12-23

PRIOR APPLICATION NUMBER: 09/474, 071

PRIOR FILING DATE: 1999-12-29

PRIOR APPLICATION NUMBER: 09/474, 072

PRIOR FILING DATE: 1999-12-29

PRIOR APPLICATION NUMBER: 09/572, 002

PRIOR FILING DATE: 2000-05-14

PRIOR APPLICATION NUMBER: 09/597, 993

PRIOR FILING DATE: 2000-06-12

PRIOR APPLICATION NUMBER: 09/599, 596

PRIOR FILING DATE: 2000-06-22

PRIOR APPLICATION NUMBER: 09/606, 565

PRIOR FILING DATE: 2000-06-29

PRIOR APPLICATION NUMBER: 09/365, 164

PRIOR FILING DATE: 1999-07-30

PRIOR APPLICATION NUMBER: 09/630, 334

PRIOR FILING DATE: 2000-07-31

PRIOR APPLICATION NUMBER: 09/665, 666

PRIOR FILING DATE: 2000-09-20

SEQ ID NO 43

LENGTH: 891

TYPE: DNA

ORGANISM: Mus musculus

554 GTACCACTTCCCGACAGGGATGCTCTCATGIGACCGAGTCAC 613

QY 201 ThrlhrhrhrAspguillepheTyCysthrPheargArgleuspprogluasnhs 220

Db 614 GCCACGGAATGTTGAGTTCTGAGTGTAGTTGGAGATCACGCCAGGCACAC 673

QY 221 ThrlalaGluleuvallleprogluleuproLeulahisproproAsnGluArgThrHis 240

Db 674 ACAGGGAGCTGTCATCCAGAACACTGCCACACATCCTCCACAGACAGACTAC 733

QY 241 LevalleleLeuslyValleleLeuLysLenglyvalAlaethrPheilePhearg 260

Db 734 TGGTGCTCTGGATCCATCCGTTGTCATGTCAGTGTGTCACGGCTCTCTCTC 793

QY 261 Learglylsgly--ArgmetMetaspvallysLysCsglyIleGlnAspthrAnsrr 279

Db 794 LysGlnSerInSerAspThrHisLeuLysLenglyvalAlaethrPheilePhearg 290

QY 280 LysGlnSerInSerAspThrHisLeuLysLenglyvalAlaethrPheilePhearg 853

Db 854 AAAACCGAAATGATCACACAATTGAGGAGACG 886

RESULT 9

US-09-796-858-43 (1-891)

Sequence 41, Application US/09796858

FILE REFERENCE: 7833-226-999

CURRENT FILING DATE: 2001-03-01

PRIOR APPLICATION NUMBER: 09/223, 094

PRIOR FILING DATE: 1998-12-30

PRIOR APPLICATION NUMBER: 09/223, 546

PRIOR FILING DATE: 1998-12-30

PRIOR APPLICATION NUMBER: 09/224, 246

PRIOR FILING DATE: 1998-12-30

PRIOR APPLICATION NUMBER: 09/312, 359

PRIOR FILING DATE: 1999-05-14

PRIOR APPLICATION NUMBER: 09/336, 536

PRIOR FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 09/342, 687

PRIOR FILING DATE: 1999-06-29

PRIOR APPLICATION NUMBER: 09/399, 723

PRIOR FILING DATE: 1999-09-20

PRIOR APPLICATION NUMBER: 09/471, 179

PRIOR FILING DATE: 1999-12-23

PRIOR APPLICATION NUMBER: 09/474, 071

PRIOR FILING DATE: 1999-12-29

PRIOR APPLICATION NUMBER: 09/474, 072

PRIOR FILING DATE: 1999-12-29

PRIOR APPLICATION NUMBER: 09/572, 002

PRIOR FILING DATE: 2000-05-14

PRIOR APPLICATION NUMBER: 09/597, 993

PRIOR FILING DATE: 2000-06-12

PRIOR APPLICATION NUMBER: 09/599, 596

PRIOR FILING DATE: 2000-06-22

PRIOR APPLICATION NUMBER: 09/606, 565

PRIOR FILING DATE: 2000-06-29

PRIOR APPLICATION NUMBER: 09/365, 164

PRIOR FILING DATE: 1999-07-30

PRIOR APPLICATION NUMBER: 09/630, 334

PRIOR FILING DATE: 2000-07-31

PRIOR APPLICATION NUMBER: 09/665, 666

PRIOR FILING DATE: 2000-09-20

SEQ ID NO 43

LENGTH: 891

TYPE: DNA

ORGANISM: Mus musculus

QY 41 LysPheProValGluLysGlnLeuAspIleAlaLaleLeuIleLeuValtyTrpGluMetGlu 60

Db 175 AGATCCCTGAGACGGGAGCTGACGCCCTGCTGCTACTGCTACGGCTTA 234

QY 61 AspLysAsnIleLeuGlnHevalHisGlyGluLysAspLeuIleValGly 80

Db 235 GATGAGCAAGTCACTGAGTCTGCGAGGAGGACCTTACGCCCTGACAC 294

QY 81 TyrArgGlnArgLaaArgIleLeuLysAspGlnIleLeuLeuGlyAsnLaa 100

Db 295 TTCAAGGGAGAGSCTCTGCCAAAGGACCASCCTTTCAGGAAATCTGCCCTCA 354

QY 101 IleThrAspValLysLeuGlnAspAlaGlyValTyrArgCysMetIleSerTyrGlyGly 120

Db 355 ATCACAGAGTCAGCTGAGGAGCAGCGTTACTGTCATAATCAGCTACGGCT 414

QY 121 AlaAspTyrLysArgIleThrVallysValAsnAlaProTyrAsnLysIleAsnGln 140

Db 415 GCGGACTAACAGGCAATCACGCTGAGCAATGCCCTAACGCCAAATCACGCCAGAGA 474

QY 141 IleLeuValValAspProValThrSerGluHisIleThrCysGlnIleGlu 160

Db 532 CCAGAGCAGGAGATCCTGGACACACTGACCAACCCGTCAGGGAGAGAT 591

Db 475 ATT---TCCGTGGATCCACCACTCTGACGATRACTATATGTCAGCCGAGGTTA 531

QY 161 ProIysAlaGluValIleThrPheSerSerAspHisGlyValLeuLeuSerGlyLysThrThr 180

Db 592 GTCAACACTTCCGGACAGGGATGCTCTCATGTCACGCCAGTCAC 650

QY 201 Thrlhr---ThrAspGluIlePheTyCysthrPheargArgleuspproglu 218

Db 651 GCCACATGANNAGGCAATGATGT-TTCTACTGTAGTATGGATCACGCCAGGGCAA 709

QY 219 AsnHisThrlalaGluleuvallleprogluleuproLeulahisproproAsnGlu 238

Db 710 AACACACAGGGC-GANATCATCCAGAACACTGCCACACATCCTCCACAGACAG 768

QY 239 ThrHsleValleLeuslyValleleLeuLysLenglyvalAlaethrPheile 258

Db 769 ACTCACTGCTGCTGCGATCCATCCGTTGTCATGTCACGCCAGTCAC 828

QY 259 PheArgLarglylsgly--ArgmetMetaspvallysLysCsglyIleGlnAsp 277

Db 829 CTCTCTTCTGAGAAACAGTGGAGATGATGAGGAGAAATGGCCGTGAGATACA 888

QY 278 Asn 278

Db 889 AGC 891  
 RESULT 10  
 US-09-649-108-1  
 Sequence 10728, Application US/09867701  
 ; GENERAL INFORMATION:  
 ; PATENT NO. US20020132237A1  
 ; APPLICANT: Aglata, Paul A.  
 ; APPLICANT: Harlocker, Susan L.  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER  
 ; FILE REFERENCE: 210121-497  
 ; CURRENT APPLICATION NUMBER: US/09/867,701  
 ; CURRENT FILING DATE: 2001-05-29  
 ; NUMBER OF SEQ ID NOS: 10912  
 ; SEQ ID NO 2957  
 ; LENGTH: 497  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapien  
 ; US-09-867-701-2957  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 10728  
 ; LENGTH: 464  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapien  
 ; US-09-867-701-10728  
 Alignment Scores:  
 Pred. No.: 1.1e-79  
 Score: 726.00  
 Percent Similarity: 100.00%  
 Best Local Similarity: 100.00%  
 Query Match: 48.05%  
 DB: 10 Gaps: 0  
 Length: 464  
 Matches: 140  
 Conservative: 0  
 Mismatches: 0  
 Indels: 0  
 US-09-649-108-1 (1-290) x US-09-867-701-10728 (1-464)  
 Qy 88 LeulysaspGlnleuSerLeuglyAsnAlaAlaIeuGlnleuhraspValysLeugln 107  
 Db 9 TTGAAGGACAGCTCCCTGGAAATGCTGCACATCAGATCACAGATGTGAATTCAG 68  
 Qy 108 AspAlaGlyValTyrArgCysMetIleSerThrGlyGlyAlaAspTyrLysArgIlehr 127  
 Db 69 GATGCAAGTCATGCCCATACACAAATCACACCAAGATTGTGGTGGATCCAGT 128  
 Qy 127 rValysValasnAlaProtYAsnlysIleasnGlnArgIleLeuValAspProva 147  
 Db 129 TGUGAAGTCATGCCCATACACAAATCACACCAAGATTGTGGTGGATCCAGT 188  
 Qy 147 1thrSerGluHisGluLeuthrCysGlnAlaGlyGlyTyrProlysAlaGluValletr 167  
 Db 189 CACCTCTGACATGACTGACATGTCAAGCTGAGGGTACCCAAAGGCCGAGTCATCG 248  
 Qy 167 pthrSerSerAspHisGlnValleuSerGlyLysThrThrThrThrSerSerSerSerLysArgIlehr 187  
 Db 249 GACAAGCAGTGGCATCAAGTCAGTGAGGTAGAACCCACCAATTCCAGAGAGA 308  
 Qy 187 ugulysLeuPheAsnValThrSerThrLeuGlyIleasnGlnArgIleLeuValAspProva 207  
 Db 309 GGAGAACGTTCAATGAGCCAGCACACTGAGAAATCACACACAACTAAGAGATT 368  
 Qy 207 eTyrCysThrPheArgArgLeuAspProgluGluAspHisthrAlaGluLeuVallePr 227  
 Db 369 CTACTGCACTTGTAGGAGATAGATCCCTGGAAACCATACAGCTGATTCATCC 428  
 Qy 227 o 227  
 Db 429 A 429  
 RESULT 12  
 US-09-867-701-3638/c  
 ; sequence 3638, Application US/09867701  
 ; PATENT NO. US20020132237A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Aglata, Paul A.  
 ; APPLICANT: Jones, Robert  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER  
 ; FILE REFERENCE: 210121-497  
 ; CURRENT APPLICATION NUMBER: US/09/867,701  
 ; CURRENT FILING DATE: 2001-05-29  
 ; NUMBER OF SEQ ID NOS: 10912  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 3638  
 ; LENGTH: 442  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapien  
 ; US-09-867-701-3638

Alignment Scores:  
 Pred. No.: 4.39e-60  
 Score: 565.00  
 Percent Similarity: 100.0%  
 Best Local Similarity: 100.0%  
 Query Match: 37.39%  
 DB: 0

Length: 442  
 Matches: 108  
 Conservative: 0  
 Mismatches: 0  
 Indels: 0  
 Gaps: 0

US-09-649-108-1 (1-290) x US-09-867-701-3638 (1-442)

Qy 120 GlyAlaAspTyrsArgIleThrValysValAsnAlaProTyraAsnLysIleAsnGln 139  
 Db 442 GGTGCCACTACAGGCAATTCTGAACTGAGTCATGCCCATCACAAATCAACCA 383  
 Qy 140 ArgLeuValValAspProvalThrSerGluHisGluLeuThrCysGlnAlaGluGly 159  
 Db 382 AGATTGTTGCTGGATCAGTCACCTTGACATGACTGACATGAGCTGAGGCGC 323  
 Qy 160 TyrProlySlaGluValLeuPheSerSerAspHisGlnValLeuSerGlyLysThr 179  
 Db 322 TACCCCAAGGCCAGCTGACAAAGCACTGACCCTAGTCTGAGTGAAAGC 263  
 Qy 180 ThrThrThrAsnSerLysArgGluGluLysLeuPheAsnValThrSerThrLeuArgIle 199  
 Db 220 HisThrAlaGluLeuValLeuPheSerSerAspHisGlnValLeuSerGlyLysThr 179  
 Db 262 ACCACACCCAACTCCAGAGGAGGAGCTTCTGACTGAGCTGAGCAGCACGAGAGC 203

RESULT 13

US-09-875-338-18

: Sequence 18, Application US/09875338  
 : Patent No. US20020095024A1  
 : GENERAL INFORMATION:  
 : APPLICANT: MIKESELL, GLEN E.  
 : APPLICANT: CHANG, HAN  
 : APPLICANT: FINGER, JOSHUA N.  
 : APPLICANT: YANG, GUCHEN  
 : APPLICANT: LU, PIN  
 : APPLICANT: ZHOU, XIA-DI  
 : APPLICANT: PEACH, ROBERT  
 : TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR CURRENT APPLICATION NUMBER: US/09/875,338  
 : FILE REFERENCE: 30-3-4071US2  
 : CURRENT FILING DATE: 2001-06-06  
 : PRIOR APPLICATION NUMBER: 60/272,107  
 : PRIOR FILING DATE: 2001-02-28  
 : PRIOR APPLICATION NUMBER: 60/209,811  
 : PRIOR FILING DATE: 2000-06-06  
 : NUMBER OF SEQ ID NOS: 94  
 : SOFTWARE: Patentin Ver. 2.1  
 : SEQ ID NO 18  
 : LENGTH: 666  
 : TYPE: DNA  
 : ORGANISM: Homo sapiens  
 : FEATURE:  
 : NAME/KEY: CDS  
 : LOCATION: (1)...(819)  
 : US-09-890-913A-3

Alignment Scores:  
 Pred. No.: 3.51e-55  
 Score: 527.00  
 Percent Similarity: 100.0%  
 Best Local Similarity: 100.0%  
 Query Match: 34.88%  
 DB: 10

Length: 666  
 Matches: 101  
 Conservative: 0  
 Mismatches: 0  
 Indels: 0  
 Gaps: 0

US-09-875-338-18

Alignment Scores:  
 Pred. No.: 3.51e-55  
 Score: 527.00  
 Percent Similarity: 100.0%  
 Best Local Similarity: 100.0%  
 Query Match: 34.88%  
 DB: 10

Length: 666  
 Matches: 101  
 Conservative: 0  
 Mismatches: 0  
 Indels: 0  
 Gaps: 0

US-09-649-108-1 (1-290) x US-09-896-913A-3 (1-819)

Qy 19 PheThrValThrValProlySlaPheLeuPheValValGluTyroGlySerAsnMetThrIle 38  
 Db 61 TTACAGGACACTCCPAGGAACCTGACATATAGGACGCGAGCAATGTCAGCCCTG 120  
 Qy 39 GlucylSlysPheProvalGluLysGlnIeuAspLeuAlaLeuIeuValTyrTrpGlu 58

Qy 190 LeuPheAsnValThrSerThrLeuArgIleAsnThrThrAsnGluIlePheTyrcys 209  
 Db 3 CTTTCATACTGTAACGACACTGAGAAATCACACAACTATGAGCTTCATGC 62  
 Qy 210 ThrPheThrArgLeuAspProGlugluAsnHisthAlaGluLeuValIleProGlu 229  
 Db 63 ACTTTAGGATGATGCTGTGAGGAACCATACAGCTGAATGTCATCCAGGACTA 122  
 Qy 230 ProIleAlaHisProAspGluArgThrHisLeuValIleLeuGlyAlaIleLeu 249  
 Db 123 CCTCTGGCACATCTCCAAATGAAAGGACTCACTGGTAATCTGGGACCATCTTARTA 182  
 Qy 250 CysLeuGlyValAlaLeuThrPheIlePheArgLeuArgGlyArgMetMetAspVal 269  
 Db 183 TGCTTGGTGACACATGACATCTCGTTAGAAAGGGAGATGATGGACGTG 242  
 Qy 270 LysLysCysGlyIleGlnAspThrAsnSerLysGlnSerAspThrHistidineGlu 289  
 Db 243 AAAATATGGCCATCCAGATAGAACCTAACAAAGAGCAAGTAGATACATTTGGAG 302

RESULT 14

US-09-896-913A-3

: Sequence 3, Application US/09896913A  
 : Patent No. US2002014600A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Freemian, Gordon  
 : APPLICANT: Chernova, Irene  
 : APPLICANT: Chernova, Tatyana  
 : APPLICANT: Malenkovich, Nelly  
 : TITLE OF INVENTION: PD-L1 MOLECULES: NOVEL PD-1 LIGANDS AND TITLE OF INVENTION: USES THEREFOR  
 : FILE REFERENCE: GNN-026A  
 : CURRENT APPLICATION NUMBER: US/09/896, 913A  
 : CURRENT FILING DATE: 2002-04-15  
 : PRIOR APPLICATION NUMBER: 60/214, 563  
 : PRIOR FILING DATE: 2000-06-28  
 : PRIOR APPLICATION NUMBER: 60/270, 822  
 : PRIOR FILING DATE: 2001-02-23  
 : PRIOR APPLICATION NUMBER: 60/271, 114  
 : PRIOR FILING DATE: 2001-02-23  
 : SEQ ID NO 3  
 : LENGTH: 819  
 : TYPE: DNA  
 : ORGANISM: Homo sapiens  
 : FEATURE:  
 : NAME/KEY: CDS  
 : LOCATION: (1)...(819)  
 : US-09-890-913A-3

Alignment Scores:  
 Pred. No.: 5.82e-41  
 Score: 411.50  
 Percent Similarity: 53.14%  
 Best Local Similarity: 39.11%  
 Query Match: 27.23%  
 DB: 9

Length: 819  
 Matches: 106  
 Conservative: 38  
 Mismatches: 93  
 Indels: 34  
 Gaps: 8

Alignment Scores:  
 Pred. No.: 5.82e-41 Length: 819  
 Score: 411.50 Matches: 106  
 Percent Similarity: 53.14% Conservative: 38  
 Best Local Similarity: 39.11% Mismatches: 93  
 Query Match: 27.23% Gaps: 8  
 DB: 10

US-09-649-108-1 (1-290) x US-09-794-210-1 (1-819)

Qy 59 MetGluAspLysAsnIleLeuGlnPheValHisGlyGluGluAspLeuLysValGlnHis 78  
 Db 181 -----AAGGTTGAAT 192

Qy 79 ----SerSerArgLysArgLysAspGlnLeuSerLeuGlyAsn 96  
 Db 193 GATACATCCCCACCGTGAAGGCCACTTGTGGAGGAGCTGCCCTTGGGAAG 252

Qy 97 AlaAlaLeuGlnIleThrAspValLysLeuGlnAspAlaGlyValTyrArgCysMetIle 116  
 Db 253 GCCCGTTCCACATACCTCAAGTCAGGCTGGGACGAGCTGCCCTTGGGAAG 312

Qy 117 SerTyrglyglyala--AspTyrylsgargilethrVallysValasnalaProtYrasn 135  
 Db 313 ATCATGGGGTGCCTGGACTAACAGTACTGACTCTGAAAGCTCAAGTCTCTACAGG 372

Qy 136 LysIleAsnGlnArgIleLeuValValaspProValThrSerGluHisGluLeuThrCys 155  
 Db 373 AAAATAAACACTCACATCTTAAGGT---CCACAAAGATGCTACCTG 429

D' 156 GlnAlaGluGlyTyrProlysAlaGluValIleThrSerSerAspHisGlnValleu 175  
 Db 430 CAGGCTTACAGGTTACCTGGGAGAATGCTGGCAAC 474

Qy 176 SerGlyLysThrThrThrThrAsnSerLysArgGluGlyLeuPheAsnValThrSer 195  
 Db 475 AGCCTTCCGCCCCAACACCCAGCAGCTCCAGGCCCTGAAGGCCCTACCCAGGTACCACT 534

Qy 196 ThreIleArgIleAsnThrThrThrAsnGluIlePheThrPheArgArgLeuIleSp 215  
 Db 535 GTCTGGCGCTAAAGCCACCCCTGGCAGAACCTTCAGCTGGCTGCTTC 582

Qy 216 ProGluGluAsnHisthrAlaGluIleValIleProGluIleProLeuAlaHisProPro 235  
 Db 640 GAACCCAGGACCCATCCAACCTGGCTGCATCACATTTCATCCCTCCGACATC---ATT 696

Qy 254 AlaLeuThrPheIlePheArgLeuArgLysGlyArgMetMet AspValLysLysCysI 273  
 Db 697 GCTTCATTTCTAGCCACAGGATAGCCCTAAGAAACAACCTGTCAAAGCTGTAT 756

Qy 273 YIeGlnAspThrAsnSerLysLysGlnSer 283  
 Db 757 TCTCAAAAGACACACAAAGCTGTCA 787

R<sub>U</sub>-I 15

US-09-794-210-1

; Sequence 1, Application US/09/94210  
; Patent No. US20020091246A1

; GENERAL INFORMATION:

; APPLICANT: PARDO, Drew

; APPLICANT: TSUCHIYA, Haruo

; APPLICANT: GORSKI, Kevin

; APPLICANT: TSENG, Su-Yi

TITLE OF INVENTION: NEW DENDRITIC CELL CO-STIMULATORY MOLECULES

FILE REFERENCE: 2240-169345

CURRENT APPLICATION NUMBER: US/09/794,210

CURRENT FILING DATE: 2001-02-28

NUMBER OF SEQ ID NOS: 16

SOFTWARE: Patentin version 3.1

SEQ ID NO 1

LENGTH: 819

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: CDS

NAME/KEY: (1)...(819)

LOCATION: (1)

OTHER INFORMATION:

US-09-794-210-1

Search completed: January 12, 2003, 12:44:57  
Job time : 68 secs

Copyright (C) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 12, 2003, 10:10:43 : Search time 10.5287 seconds  
 (without alignments)  
 480.942 Million cell updates/sec

Title: US-09-649-108-1\_COPY\_30\_290  
 Perfect score: 1356  
 Sequence: 1 VEVGSNMTIECKFPVKEQDID.....KCCIQDTINSKQSDTHIEST 261.

Scoring table: BLOSUM62  
 Gappen 10.0 , Gapext 0.5

Searched: 118974 seqs, 19401057 residues

1 number of hits satisfying chosen parameters: 118974

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : Published Applications\_AA:\*

1: /cgn2\_6/podata/2/pbpaa/us08\_NEW\_PUB.pep:\*

2: /cgn2\_6/podata/2/pbpaa/PCT\_NEW\_PUB.pep:\*

3: /cgn2\_6/podata/2/pbpaa/us06\_NEW\_PUB.pep:\*

4: /cgn2\_6/podata/2/pbpaa/us05\_PUBCOMB.pep:\*

5: /cgn2\_6/podata/2/pbpaa/us07\_NEW\_PUB.pep:\*

6: /cgn2\_6/podata/2/pbpaa/us07\_PUBCOMB.pep:\*

7: /cgn2\_6/podata/2/pbpaa/PCTUS\_PUBCOMB.pep:\*

8: /cgn2\_6/podata/2/pbpaa/us08\_PUBCOMB.pep:\*

9: /cgn2\_6/podata/2/pbpaa/us09\_NEW\_PUB.pep:\*

10: /cgn2\_6/podata/2/pbpaa/us09\_PUBCOMB.pep:\*

11: /cgn2\_6/podata/2/pbpaa/us10\_NEW\_PUB.pep:\*

12: /cgn2\_6/podata/2/pbpaa/us10\_PUBCOMB.pep:\*

13: /cgn2\_6/podata/2/pbpaa/us60\_NEW\_PUB.pep:\*

14: /cgn2\_6/podata/2/pbpaa/us60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query Length	DB ID	Description
1	1356	100	0	9 US-10-068-215-4
2	1356	100	0	290 9 US-09-896-738-12
3	1356	100	0	290 9 US-09-896-913A-12
4	1356	100	0	290 9 US-09-915-789A-17
5	1356	100	0	290 10 US-09-796-858-42
6	1356	100	0	290 10 US-09-875-338-2
7	1356	100	0	290 10 US-09-910-174A-8
8	1356	100	0	290 10 US-09-955-866-6
9	1356	100	0	290 10 US-09-895-837-2
10	1356	100	0	290 12 US-10-002-775-4
11	1104	81	4	220 9 US-09-915-89A-23
12	1096	80	8	480 10 US-09-875-338-5
13	1029	75	9	245 9 US-10-068-215-2
14	1029	75	9	245 12 US-10-002-775-2
15	952	70	2	290 9 US-10-068-215-23
16	952	70	2	290 9 US-09-896-913A-11
17	952	70	2	290 10 US-09-794-210-16
18	952	70	2	290 10 US-09-910-174A-32
19	952	70	2	290 10 US-09-895-837-11

**ALIGNMENTS**

RESULT 1  
 US-10-068-215-4  
 Sequence 4, Application US/10068215  
 ; Patent No. US20020160000A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Clive Wood  
 ; ATTORNEY: Gordon Freeman  
 ; TITLE OF INVENTION: PD-1, A Receptor For B7-4, and Uses Therefor  
 ; FILE REFERENCE: GNN\_004B  
 ; CURRENT APPLICATION NUMBER: US/10/068, 215  
 ; CURRENT FILING DATE: 2002-03-06  
 ; PRIOR APPLICATION NUMBER: 09/645, 069  
 ; PRIOR FILING DATE: 2000-08-23  
 ; PRIOR APPLICATION NUMBER: 60/150, 390  
 ; PRIOR FILING DATE: 1999-8-23  
 ; PRIOR APPLICATION NUMBER: 60/164, 897  
 ; PRIOR FILING DATE: 1999-11-10  
 ; NUMBER OF SEQ ID NOS: 23  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO: 4  
 ; LENGTH: 290  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-068-215-4

Query Match 100.0%; Score 1356; DB 9; Length 290;  
 Best Local Similarity 100.0%; Pred. No. 1e-94;  
 Matches 261; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VEVGSNMTIECKFPVKEQDID.....KCCIQDTINSKQSDTHIEST 261

OY 1 VEVGSNMTIECKFPVKEQDID.....KCCIQDTINSKQSDTHIEST 261

OY 1 DOLSLQNLALQTDVKLQDAGSYRCMISYGGADYKRITVKUNAPYKINQNRILWPPVT 120

OY 1 DOLSLQNLALQTDVKLQDAGSYRCMISYGGADYKRITVKUNAPYKINQNRILWPPVT 149

OY 121 EHELTQAEQPKAENIWTSQDHQVSGKTNTNSKREKEUNVTSLRINTTNEIFYC 180

OY 150 EHELTQAEQPKAENIWTSQDHQVSGKTNTNSKREKEUNVTSLRINTTNEIFYC 209

OY 181 TFRRLPQEENITAELYIPELPLAHPNERTHVLIGAIIICGJAVTFIRURGRMDV 240



**RESULT 5**  
US-09-796-858-42  
; Sequence 42, Application US/09796858  
; Patent No. US2002005139A1

GENERAL INFORMATION:  
 ; APPLICANT: Holtzman, Douglas  
 ; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC,  
 ; TITLE OF INVENTION: PREVENTIVE, THERAPEUTIC, AND OTHER USES  
 ; FILE REFERENCE: 7833-226-999  
 ; CURRENT APPLICATION NUMBER: US/09/796, 858  
 ; CURRENT FILING DATE: 2001-03-01  
 ; PRIOR APPLICATION NUMBER: 09/223, 094  
 ; PRIOR FILING DATE: 1998-12-30  
 ; PRIOR APPLICATION NUMBER: 09/223, 546  
 ; PRIOR FILING DATE: 1998-12-30  
 ; PRIOR APPLICATION NUMBER: 09/224, 246  
 ; PRIOR FILING DATE: 1998-12-30  
 ; PRIOR APPLICATION NUMBER: 09/312, 359  
 ; PRIOR FILING DATE: 1999-05-14  
 ; PRIOR APPLICATION NUMBER: 09/336, 536  
 ; PRIOR FILING DATE: 1999-06-18  
 ; PRIOR APPLICATION NUMBER: 09/342, 687  
 ; PRIOR FILING DATE: 1999-06-29  
 ; PRIOR APPLICATION NUMBER: 09/399, 723  
 ; PRIOR FILING DATE: 1999-09-20  
 ; PRIOR APPLICATION NUMBER: 09/471, 179  
 ; PRIOR FILING DATE: 1999-12-23  
 ; PRIOR APPLICATION NUMBER: 09/474, 071  
 ; PRIOR FILING DATE: 1999-12-29  
 ; PRIOR APPLICATION NUMBER: 09/474, 072  
 ; PRIOR FILING DATE: 1999-12-29  
 ; PRIOR APPLICATION NUMBER: 09/5572, 002  
 ; PRIOR FILING DATE: 2000-05-14  
 ; PRIOR APPLICATION NUMBER: 09/557, 993  
 ; PRIOR FILING DATE: 2000-06-12  
 ; PRIOR APPLICATION NUMBER: 09/559, 596  
 ; PRIOR FILING DATE: 2000-06-22  
 ; PRIOR APPLICATION NUMBER: 09/606, 565  
 ; PRIOR FILING DATE: 2000-06-29  
 ; PRIOR APPLICATION NUMBER: 09/365, 164  
 ; PRIOR FILING DATE: 1999-07-30  
 ; PRIOR APPLICATION NUMBER: 09/630, 334  
 ; PRIOR FILING DATE: 2000-07-31  
 ; PRIOR APPLICATION NUMBER: 09/665, 666  
 ; PRIOR FILING DATE: 2000-09-20  
 ; NUMBER OF SEQ ID NOS: 50  
 ; SEQ ID NO 42  
 ; LENGTH: 290  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-875-338-2

Query Match 100.0%; Score 1356; DB 10; Length 290;  
 Best Local Similarity 100.0%; Pred. No. 1e-44; 0; Mismatches 261; Conservative 0; Indels 0; Gaps 0;

**Qy** 1 VEGSNMTECKFPEVKOQLDAALIVWVWEMEDKNIQFVHGEEDLKVKHSSYRARLIK 60  
**Db** 30 VEYGSNMTECKFPEVKOQLDAALIVWVWEMEDKNIQFVHGEEDLKVKHSSYRARLIK 89  
**Qy** 61 DQLSGNALAQITDVKLQDGVRCMISGGADYKRITKVNPYNKINORILVDPVTS 120  
**Db** 90 DQLSGNALAQITDVKLQDGVRCMISGGADYKRITKVNPYNKINORILVDPVTS 149  
**Qy** 121 EHELTCAQATGPKAEVINTVSSDHOLSGKTTNSKREERLFNTSTLINTTNEIFYC 180  
**Db** 150 EHELTCAQATGPKAEVINTVSSDHOLSGKTTNSKREERLFNTSTLINTTNEIFYC 209  
**Qy** 181 TERRIDPENHTAELVPELPLAPPNEITHVLVIGAILICLGVALTERFLRKGRMMDV 240  
**Db** 210 TERRIDPENHTAELVPELPLAPPNEITHVLVIGAILICLGVALTERFLRKGRMMDV 269  
**Qy** 241 KKCGIQTDSKKQSDTHLET 261  
**Db** 270 KKCGIQTDSKKQSDTHLET 290

**RESULT 6**  
US-09-875-338-2  
; Sequence 2, Application US/09875338  
; Patent No. US20020095024A1

GENERAL INFORMATION:  
 ; APPLICANT: MIKESELL, GLEN E.  
 ; APPLICANT: CHANG, HAN  
 ; APPLICANT: FINGER, JOSHUA N.  
 ; APPLICANT: YANG, GUOGEN  
 ; APPLICANT: LU, PIN  
 ; APPLICANT: ZHOU, XIAO-DI  
 ; APPLICANT: PEACH, ROBERT  
 ; TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR  
 ; TITLE OF INVENTION: IMMUNOMODULATION  
 ; FILE REFERENCE: 3053-4071052  
 ; CURRENT APPLICATION NUMBER: US/09/875, 338  
 ; CURRENT FILING DATE: 2001-05-06  
 ; PRIOR APPLICATION NUMBER: 60/272, 107  
 ; PRIOR FILING DATE: 2001-02-28  
 ; PRIOR APPLICATION NUMBER: 60/209, 811  
 ; PRIOR FILING DATE: 2000-06-06  
 ; NUMBER OF SEQ ID NOS: 94  
 ; SOFTWARE: Patentin Ver. 2.1  
 ; SEQ ID NO 2  
 ; LENGTH: 290  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-875-338-2

Query Match 100.0%; Score 1356; DB 10; Length 290;  
 Best Local Similarity 100.0%; Pred. No. 1e-44; 0; Mismatches 261; Conservative 0; Indels 0; Gaps 0;

**Qy** 1 VEGSNMTECKFPEVKOQLDAALIVWVWEMEDKNIQFVHGEEDLKVKHSSYRARLIK 60  
**Db** 30 VEYGSNMTECKFPEVKOQLDAALIVWVWEMEDKNIQFVHGEEDLKVKHSSYRARLIK 89  
**Qy** 61 DQLSGNALAQITDVKLQDGVRCMISGGADYKRITKVNPYNKINORILVDPVTS 120  
**Db** 90 DQLSGNALAQITDVKLQDGVRCMISGGADYKRITKVNPYNKINORILVDPVTS 149  
**Qy** 121 EHELTCAQATGPKAEVINTVSSDHOLSGKTTNSKREERLFNTSTLINTTNEIFYC 180  
**Db** 150 EHELTCAQATGPKAEVINTVSSDHOLSGKTTNSKREERLFNTSTLINTTNEIFYC 209  
**Qy** 181 TERRIDPENHTAELVPELPLAPPNEITHVLVIGAILICLGVALTERFLRKGRMMDV 240  
**Db** 210 TERRIDPENHTAELVPELPLAPPNEITHVLVIGAILICLGVALTERFLRKGRMMDV 269  
**Qy** 241 KKCGIQTDSKKQSDTHLET 261  
**Db** 270 KKCGIQTDSKKQSDTHLET 290

**RESULT 7**  
US-09-910-174A-8  
; Sequence 8, Application US/09910174A  
; Patent No. US20030106730A1  
; GENERAL INFORMATION:  
 ; APPLICANT: Coyle, Anthony J.

APPLICANT: Fraser, Christopher C.  
 APPLICANT: Manning, Stephen  
 TITLE OF INVENTION: B7-H2 Molecules, No US20020106730a1el Members of the B7 Family and Uses Thereof  
 TITLE OF INVENTION: Family and Uses Thereof  
 CURRENT APPLICATION NUMBER: US/09/910,174A  
 CURRENT FILING DATE: 2001-07-20  
 PRIOR APPLICATION NUMBER: US 09/620,461  
 PRIOR FILING DATE: 2000-07-20  
 NUMBER OF SEQ ID NOS: 32  
 SOFTWARE: Fast-SEQ for Windows Version 4.0  
 SEQ ID NO: 8  
 LENGTH: 290  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-910-174A-8

Query Match 100.0%; Score 1356; DB 10; Length 290;  
 Best Local Similarity 100.0%; Pred. No. 1e-94; 0; Indels 0; Gaps 0;  
 Mismatches 261; Conservative 0;

QY 1 VEYGSNMTECKFPVKEQOLDLAALLIVWEMEDKNIQFVHGEDDLKVQHSSYRARLIK 60  
 Db 30 VEYGSNMTECKFPVKEQOLDLAALLIVWEMEDKNIQFVHGEDDLKVQHSSYRARLIK 89

QY 61 DQLSIGNALQITDVKLQDGAVRCMSYGADYKRVTKVNAPYINKNORILWDPPTS 120  
 Db 90 DQLSIGNALQITDVKLQDGAVRCMSYGADYKRVTKVNAPYINKNORILWDPPTS 149

QY 121 EHELTQAEQYPAEVINTSDHQVLSGKTTSNSKREKLFNTSTIRINTTNEIFYC 180  
 Db 150 EHELTQAEQYPAEVINTSDHQVLSGKTTSNSKREKLFNTSTIRINTTNEIFYC 209

QY 181 TFRRLDPENHTAELVLPPLAHPPNERTHLYLVIGATLICLGVALFIFRLRKGRMDV 240  
 Db 210 TFRRLDPENHTAELVLPPLAHPPNERTHLYLVIGATLICLGVALFIFRLRKGRMDV 269

QY 241 KKCGIQTDSNSKKOSDTHLEET 261  
 Db 270 KKCGIQTDSNSKKOSDTHLEET 290

RESULT 8  
 US-09-955-866-6

Sequence 6, Application US/09955866  
 Patent No. US2002010736A1  
 GENERAL INFORMATION:  
 ;APPLICANT: Fox, Michael

;APPLICANT: Sullivan, John K.  
 ;APPLICANT: Holst, Paige  
 ;APPLICANT: Yoshinaga, Steven Kiyoshi  
 TITLE OF INVENTION: B7-Like Polypeptides and Uses Thereof  
 FILE REFERENCE: 00-759-A  
 CURRENT APPLICATION NUMBER: US/09/955,866  
 CURRENT FILING DATE: 2001-03-19  
 PRIOR APPLICATION NUMBER: 60/233,867  
 PRIOR FILING DATE: 2000-09-20  
 NUMBER OF SEQ ID NOS: 30  
 SOFTWARE: Patentin Ver. 2.0  
 SEQ ID NO: 6  
 LENGTH: 290  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-955-866-6

RESULT 9  
 US-09-895-837-12

Sequence 12, Application US/09895837  
 Patent No. US20020110836A1  
 GENERAL INFORMATION:  
 ;APPLICANT: Freeman, Gordon  
 ;APPLICANT: Chernova, Irene  
 ;APPLICANT: Chernova, Tatyana  
 ;APPLICANT: Malenkovich, Nelly  
 ;APPLICANT: Wood, Clive  
 ;APPLICANT: Latchman, Yvette  
 ;APPLICANT: Sharpe, Arlene H.  
 TITLE OF INVENTION: PD-12 MOLECULES: NOVEL PD-1 LIGANDS AND  
 TITLE OF INVENTION: USES THEREFOR  
 FILE REFERENCE: GNN-026B  
 CURRENT APPLICATION NUMBER: US/09/895,837  
 CURRENT FILING DATE: 2001-06-28  
 PRIOR APPLICATION NUMBER: 60/214,563  
 PRIOR FILING DATE: 2000-06-28  
 PRIOR APPLICATION NUMBER: 60/270,822  
 PRIOR APPLICATION NUMBER: 60/271,114  
 PRIOR FILING DATE: 2001-02-23  
 PRIOR FILING DATE: 2001-02-23  
 SOFTWARE: Fast-SEQ for Windows Version 4.0  
 SEQ ID NO: 12  
 LENGTH: 290  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-895-837-12

Query Match 100.0%; Score 1356; DB 10; Length 290;  
 Best Local Similarity 100.0%; Pred. No. 1e-94; 0; Indels 0; Gaps 0;  
 Mismatches 261; Conservative 0;

QY 1 VEYGSNMTECKFPVKEQOLDLAALLIVWEMEDKNIQFVHGEDDLKVQHSSYRARLIK 60  
 Db 30 VEYGSNMTECKFPVKEQOLDLAALLIVWEMEDKNIQFVHGEDDLKVQHSSYRARLIK 89

QY 61 DQLSIGNALQITDVKLQDGAVRCMSYGADYKRVTKVNAPYINKNORILWDPPTS 120  
 Db 90 DQLSIGNALQITDVKLQDGAVRCMSYGADYKRVTKVNAPYINKNORILWDPPTS 149

QY 121 EHELTQAEQYPAEVINTSDHQVLSGKTTSNSKREKLFNTSTIRINTTNEIFYC 180  
 Db 150 EHELTQAEQYPAEVINTSDHQVLSGKTTSNSKREKLFNTSTIRINTTNEIFYC 209

QY 181 TFRRLDPENHTAELVLPPLAHPPNERTHLYLVIGATLICLGVALFIFRLRKGRMDV 240  
 Db 210 TFRRLDPENHTAELVLPPLAHPPNERTHLYLVIGATLICLGVALFIFRLRKGRMDV 269

QY 241 KKCGIQTDSNSKKOSDTHLEET 261  
 Db 270 KKCGIQTDSNSKKOSDTHLEET 290

QY 61 DQLSIGNALQITDVKLQDGAVRCMSYGADYKRVTKVNAPYINKNORILWDPPTS 120  
 Db 90 DQLSIGNALQITDVKLQDGAVRCMSYGADYKRVTKVNAPYINKNORILWDPPTS 149

QY 121 EHELTQAEQYPAEVINTSDHQVLSGKTTSNSKREKLFNTSTIRINTTNEIFYC 180  
 Db 150 EHELTQAEQYPAEVINTSDHQVLSGKTTSNSKREKLFNTSTIRINTTNEIFYC 209

QY 181 TFRRLDPENHTAELVLPPLAHPPNERTHLYLVIGATLICLGVALFIFRLRKGRMDV 240  
 Db 210 TFRRLDPENHTAELVLPPLAHPPNERTHLYLVIGATLICLGVALFIFRLRKGRMDV 269

QY 241 KKCGIQTDSNSKKOSDTHLEET 261  
 Db 270 KKCGIQTDSNSKKOSDTHLEET 290

RESULT 10  
US-10-002-775-4  
; Sequence 4, Application US/10002775  
; Patent No. US20020105651A1

; GENERAL INFORMATION:  
; APPLICANT: Gordon Freeman

; APPLICANT: Vassiliuk Boussiotis  
; Tatyana Chernova

; Nelly Malenkovich

; TITLE OF INVENTION: NOVEL B7-A MOLECULES AND USES THEREFOR

; FILE REFERENCE: GNN-004ADV

; CURRENT APPLICATION NUMBER: US/10/002,775

; PRIORITY FILING DATE: 2001-11-02

; PRIORITY APPLICATION NUMBER: US 09/644,934

; PRIORITY FILING DATE: 2000-08-23

; NUMBER OF SEQ ID NOS: 11

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 4

; LENGTH: 290

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-10-002-775-4

Query Match 100.0%; Score 1356; DB 12; Length 290;  
Best Local Similarity 100.0%; Pred. No. 1e-94; Matches 261; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Db 70 DOLSLGNALAQITDVKLODAGVRCMISYGGADYKRITVKVNAPYNNQRLILVDPPTS 129

Qy 1 VEYGSNMTIECKFPVEKOLDLAALIVVWEMEDKNIIQFVHGEEDLKVOHSSYRORARIK 60  
Db 61 DOLSLGNALAQITDVKLODAGVRCMISYGGADYKRITVKVNAPYNNQRLILVDPPTS 120

Qy 10 VEYGSNMTIECKFPVEKOLDLAALIVVWEMEDKNIIQFVHGEEDLKVOHSSYRORARIK 69  
Db 70 DOLSLGNALAQITDVKLODAGVRCMISYGGADYKRITVKVNAPYNNQRLILVDPPTS 129

Qy 121 EHELTCAQEGYPRAEVWTSDDHQVLSGKTTTNSKREEKLFNFTSTIRINTTNEIFYC 180  
Db 130 EHELTCAQEGYPRAEVWTSDDHQVLSGKTTTNSKREEKLFNFTSTIRINTTNEIFYC 189

Qy 181 TFRRLDPRENHTAELVTPELPLAHPPNERTH 211  
Db 190 TFRRLDPENHTAELVTPELPLAHPPNERTH 220

RESULT 12

US-09-875-338-5  
; Sequence 5, Application US/09875338

; Patent No. US20020095024A1

; GENERAL INFORMATION:

; APPLICANT: MIKSELL, GLEN E.

; APPLICANT: CHANG, HAN

; APPLICANT: FINGER, JOSHUA N.

; APPLICANT: YANG, GUCHEN

; APPLICANT: LU, PIN

; APPLICANT: ZHOU, XIAO-DI

; APPLICANT: PEACH, ROBERT

; TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR

; FILE REFERENCE: 3053-4071US2

; CURRENT APPLICATION NUMBER: US/09/875,338

; PRIORITY FILING DATE: 2001-06-06

; PRIORITY FILING DATE: 2001-02-28

; PRIORITY APPLICATION NUMBER: 60/209,811

; PRIORITY FILING DATE: 2000-06-06

; NUMBER OF SEQ ID NOS: 94

; SEQ ID NO 5

; LENGTH: 480

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

; OTHER INFORMATION: fusion construct

; US-09-875-338-5

Query Match 80.8%; Score 1096; DB 10; Length 480;  
Best Local Similarity 100.0%; Pred. No. 5.4e-75; Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Db 94 DOLSLGNALAQITDVKLODAGVRCMISYGGADYKRITVKVNAPYNNQRLILVDPPTS 153

Qy 1 VEYGSNMTIECKFPVEKOLDLAALIVVWEMEDKNIIQFVHGEEDLKVOHSSYRORARIK 60  
Db 34 VEYGSNMTIECKFPVEKOLDLAALIVVWEMEDKNIIQFVHGEEDLKVOHSSYRORARIK 93

Qy 61 DOLSLGNALAQITDVKLODAGVRCMISYGGADYKRITVKVNAPYNNQRLILVDPPTS 120  
Db 94 DOLSLGNALAQITDVKLODAGVRCMISYGGADYKRITVKVNAPYNNQRLILVDPPTS 153

Qy 121 EHELTCAQEGYPRAEVWTSDDHQVLSGKTTTNSKREEKLFNFTSTIRINTTNEIFYC 180  
Db 154 EHELTCAQEGYPRAEVWTSDDHQVLSGKTTTNSKREEKLFNFTSTIRINTTNEIFYC 193

Qy 181 TFRRLDPRENHTAELVTPELPLAHPPNERTH 210  
Db 214 TFRRLDPENHTAELVTPELPLAHPPNERTH 243

Query Match 81.4%; Score 1104; DB 9; Length 220;  
Best Local Similarity 100.0%; Pred. No. 5.4e-76; Length 220;  
; US-09-915-789A-23  
; Sequence 23, Application US/09915789A  
; Patent No. US20020168762A1

; GENERAL INFORMATION:

; APPLICANT: Chen, Lieping

; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY MOLECULES

; FILE REFERENCE: 07/319-219001

; CURRENT APPLICATION NUMBER: US/09/915,789A

; CURRENT FILING DATE: 2002-06-04

; PRIORITY APPLICATION NUMBER: US 60/220,991

; PRIORITY FILING DATE: 2000-07-27

; NUMBER OF SEQ ID NOS: 23

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 23

; LENGTH: 220

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-915-789A-23

RESULT 13

Page 6

Sequence 2: Application US/10068215-2

Patent No. US2002160000A1

GENERAL INFORMATION:

APPLICANT: Clive Wood

TITLE OF INVENTION: PD-1, A Receptor For B7-4, and Uses Therefor

FILE REFERENCE: GNN-004B

CURRENT APPLICATION NUMBER: US/10068, 215

CURRENT FILING DATE: 2002-02-06

PRIOR APPLICATION NUMBER: 09/645, 069

PRIOR FILING DATE: 2000-08-23

PRIOR FILING DATE: 1999-8-23

PRIOR APPLICATION NUMBER: 60/150, 390

PRIOR FILING DATE: 1999-11-10

NUMBER OF SEQ ID NOS: 23

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 2

TYPE: PRT

ORGANISM: Homo sapiens

US-10-068-215-2

Query Match 75.9%; score 1029; DB 9; Length 245;

Best Local Similarity 100.0%; Pred. No. 2, 5e-70; Mismatches 0; Indels 0; gaps 0;

Matches 198; Conservative 100.0%; Pred. No. 2, 5e-70; Mismatches 0; Indels 0; gaps 0;

QY 1 VEYGSNMTIECKFPVKEPKOLDLALIYWMEDKNITQFVHGEEDLKVOHSSYRORLLK 60

Db 30 VEYGSNMTIECKFPVKEPKOLDLALIYWMEDKNITQFVHGEEDLKVOHSSYRORLLK 89

QY 61 DQLSLGNALQQTDVKIQDAGYRCMISYGGADYKRITVKVNAPYKINQRILVDPVTS 120

Db 90 DQLSLGNALQQTDVKIQDAGYRCMISYGGADYKRITVKVNAPYKINQRILVDPVTS 149

QY 121 EHLTCOAEQYPAEVWTSDHQVLSKGTTNSKREKLNFTSLRINTTNEIFYC 180

Db 150 EHLTCOAEQYPAEVWTSDHQVLSKGTTNSKREKLNFTSLRINTTNEIFYC 209

QY 181 TFRRLDPEENHTAELVIP 198

Db 210 TFRRLDPEENHTAELVIP 227

RESULT 15

US-10-068-215-23

Sequence 23, Application US/10068215

Patent No. US2002160000A1

GENERAL INFORMATION:

APPLICANT: Clive Wood

APPLICANT: Gordon Freeman

TITLE OF INVENTION: PD-1, A Receptor For B7-4, and Uses Therefor

FILE REFERENCE: GNN-004B

CURRENT APPLICATION NUMBER: US/10068, 215

CURRENT FILING DATE: 2002-02-06

PRIOR APPLICATION NUMBER: 09/645, 069

PRIOR FILING DATE: 2000-08-23

PRIOR FILING DATE: 1999-8-23

PRIOR FILING DATE: 1999-11-10

NUMBER OF SEQ ID NOS: 23

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 23

LENGTH: 290

TYPE: PRT

ORGANISM: Mus musculus

US-10-068-215-23

Query Match 70.2%; score 952; DB 9; Length 290;

Best Local Similarity 69.5%; Pred. No. 1, 8e-64; Mismatches 45; Indels 2; gaps 2;

Matches 182; Conservative 69.5%; Pred. No. 1, 8e-64; Mismatches 45; Indels 2; gaps 2;

QY 1 VEYGSNMTIECKFPVKEPKOLDLALIYWMEDKNITQFVHGEEDLKVOHSSYRORLLK 60

Db 30 VEYGSNMTIECKFPVKEPKOLDLALIYWMEDKNITQFVHGEEDLKVOHSSYRORLLK 89

QY 61 DQLSLGNALQQTDVKIQDAGYRCMISYGGADYKRITVKVNAPYKINQRILVDPVTS 120

Db 90 DQLSLGNALQQTDVKIQDAGYRCMISYGGADYKRITVKVNAPYKINQRILVDPVTS 148

QY 121 EHLTCOAEQYPAEVWTSDHQVLSKGTTNSKREKLNFTSLRINTTNEIFYC 180

Db 149 EHLTCOAEQYPAEVWTSDHQVLSKGTTNSKREKLNFTSLRINTTNEIFYC 208

QY 181 TFRRLDPEENHTAELVIP 198

Db 209 TFRRLDPEENHTAELVIP 211

QY 240 VFKCGIQTNTSKQSDTHLEET 261

Db 269 VFKCGIQTNTSKRNRDQFEEET 290

RESULT 16

US-10-002-775-2

Query Match 75.9%; Score 1029; DB 12; Length 245;

Best Local Similarity 100.0%; Pred. No. 2, 5e-70; Mismatches 0; Indels 0; gaps 0;

Matches 198; Conservative 100.0%; Pred. No. 2, 5e-70; Mismatches 0; Indels 0; gaps 0;

QY 1 VEYGSNMTIECKFPVKEPKOLDLALIYWMEDKNITQFVHGEEDLKVOHSSYRORLLK 60

Db 30 VEYGSNMTIECKFPVKEPKOLDLALIYWMEDKNITQFVHGEEDLKVOHSSYRORLLK 89

QY 61 DQLSLGNALQQTDVKIQDAGYRCMISYGGADYKRITVKVNAPYKINQRILVDPVTS 120

Db 90 DQLSLGNALQQTDVKIQDAGYRCMISYGGADYKRITVKVNAPYKINQRILVDPVTS 149

QY 121 EHLTCOAEQYPAEVWTSDHQVLSKGTTNSKREKLNFTSLRINTTNEIFYC 180

Db 150 EHLTCOAEQYPAEVWTSDHQVLSKGTTNSKREKLNFTSLRINTTNEIFYC 209

QY 181 TFRRLDPEENHTAELVIP 198

Db 210 TFRRLDPEENHTAELVIP 227

Search completed: January 12, 2003, 10:19:07

Job time : 11.5287 secs

Gencore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

## OM protein - protein search, using sw model

Run on: January 12, 2003, 10:10:43 ; Search time 8.47134 Seconds

Sequence: 1 VEYGSNMTIECKFPVKEQLD... HTAELVIPELPLAHPNERT 210 (without alignments)  
480.942 Million cell updates/sec

Title: US-09-649-108-10  
Perfect score: 1096  
Sequence: 1 VEYGSNMTIECKFPVKEQLD... HTAELVIPELPLAHPNERT 210

Scoring table: BLOSUM52  
Gapop 10.0 , Gapext 0.5

Searched: 118974 seqs, 19401057 residues

# number of hits satisfying chosen parameters: 118974

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Post-processing: Listing first 45 summaries

Database : Published Applications AA:\*

```
1: /cgn2_6/ptodata/2/pubbaa/us08_new_pub.pep:*
2: /cgn2_6/ptodata/2/pubbaa/pctm_new_pub.pep:*
3: /cgn2_6/ptodata/2/pubbaa/us06_new_pub.pep:*
4: /cgn2_6/ptodata/2/pubbaa/us07_new_pub.pep:*
5: /cgn2_6/ptodata/2/pubbaa/us07_pubcomb.pep:*
6: /cgn2_6/ptodata/2/pubbaa/us10_new_pub.pep:*
7: /cgn2_6/ptodata/2/pubbaa/pctus_pubcomb.pep:*
8: /cgn2_6/ptodata/2/pubbaa/us08_pubcomb.pep:*
9: /cgn2_6/ptodata/2/pubbaa/us09_new_pub.pep:*
10: /cgn2_6/ptodata/2/pubbaa/us09_pubcomb.pep:*
11: /cgn2_6/ptodata/2/pubbaa/us10_new_pub.pep:*
12: /cgn2_6/ptodata/2/pubbaa/us10_pubcomb.pep:*
13: /cgn2_6/ptodata/2/pubbaa/us60_new_pub.pep:*
14: /cgn2_6/ptodata/2/pubbaa/us60_pubcomb.pep:*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1096	100.0	220	9 US-09-915-789A-23
2	1096	100.0	290	9 US-10-068-215-4
3	1096	100.0	290	9 US-09-896-913A-12
4	1096	100.0	290	9 US-09-896-913A-12
5	1096	100.0	290	9 US-09-911-789A-17
6	1096	100.0	290	10 US-09-766-858-42
7	1096	100.0	290	10 US-09-875-338-2
8	1096	100.0	290	10 US-09-910-174A-2
9	1096	100.0	290	10 US-09-910-174A-31
10	1096	100.0	290	10 US-09-910-174A-31
11	1096	100.0	290	12 US-10-002-774-4
12	1096	100.0	480	10 US-10-002-774-5
13	1029	93.9	245	9 US-10-068-215-2
14	1029	93.9	245	12 US-10-002-775-2
15	815.5	74.4	290	9 US-10-061-215-23
16	815.5	74.4	290	9 US-09-896-913A-11
17	815.5	74.4	290	10 US-09-734-210-16
18	815.4	74.4	290	10 US-09-910-174A-32
19	815.5	74.4	290	10 US-09-895-837-11

## ALIGNMENTS

```
RESULT 1: US-09-915-789A-23
; Sequence 23, Application US/09915789A
; Patent No. US20030168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4. NOVEL IMMUNOREGULATORY
; TITLE OF INVENTION: MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 23
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-915-789A-23

Query Match 100.0%; Score 1096; DB 9; Length 220;
Best Local Similarity 100.0%; Pred. No. 2,2e-73;
Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 VEYGSNMTIECKFPVKEQLDAAALIVYWEMEDKIIQFVHGEEDLKVQHSSYRORLKK 60
Db 10 VEVGSNMTIECKFPVKEQLDAAALIVYWEMEDKIIQFVHGEEDLKVQHSSYRORLKK 69

Qy 61 DQLSGNAAALQITDVKLQDAGVYROMISTGGADKRITVNADYNKINQRLVVDPVTS 120
Db 70 DQLSGNAAALQITDVKLQDAGVYROMISTGGADKRITVNADYNKINQRLVVDPVTS 129

Qy 121 EHELTQCOAGSYPKAEVIVWSSDHQVLSGUTTNSKREKLENNTSLINTTNEIFC 180
Db 130 EHELTQCOAGSYPKAEVIVWSSDHQVLSGUTTNSKREKLENNTSLINTTNEIFC 189

Qy 181 TFRRLDPENHTAELVPLAHPNERT 210
Db 190 TFRRLDPENHTAELVPLAHPNERT 219

RESULT 2  
; Sequence 4, Application US/10068215  
; Patent No. US2002016000A1  
; GENERAL INFORMATION:  
; APPLICANT: Clive Wood  
; TITLE OF INVENTION: PD-1, A Receptor For B7-4, and uses Therefor  
; FILE REFERENCE: GNN-004B  
; CURRENT APPLICATION NUMBER: US/10/068, 215  
; CURRENT FILING DATE: 2002-02-05  
; PRIORITY APPLICATION NUMBER: 09/645, 069  
; PRIORITY FILING DATE: 2000-08-23  
; PRIORITY APPLICATION NUMBER: 60/150, 390  
; PRIORITY FILING DATE: 1999-8-23  
; PRIORITY APPLICATION NUMBER: 60/164, 897  
; PRIORITY FILING DATE: 1999-11-10  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: PatentIn Ver. 2.0  
; LENGTH: 290  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; o US-10-068-215-4

Query Match 100.0%; Score 1096; DB 9; Length 290;  
Best Local Similarity 100.0%; Pred. No. 3e-73; Mismatches 0; Indels 0; Gaps 0;  
Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VEYGSNMITECKFPVKEQVOLDLALIIVWEMEDKNITQFVHGEEDLKVKQHSSYRQRARLLK 60  
Db 30 VEYGSNMTIECKFPVKEQVOLDLALIIVWEMEDKNITQFVHGEEDLKVKQHSSYRQRARLLK 89

QY 61 DOLSLGNALQITDVKLQDAGYRCMISYGADYKRITVKVNAPYNKINQRLILVVDVTS 120  
Db 90 DOLSLGNALQITDVKLQDAGYRCMISYGADYKRITVKVNAPYNKINQRLILVVDVTS 149

QY 121 EHELTCAEGYPAEVIWTSSDHQVLSGKTNTNSKREKEFLNFNTSLRINTTNEIFYC 180  
Db 150 EHELTCAEGYPAEVIWTSSDHQVLSGKTNTNSKREKEFLNFNTSLRINTTNEIFYC 209

QY 181 TFRRLDEEENHTAELVTPELPLAHPPNERT 210  
Db 210 TFRRLDEEENHTAELVTPELPLAHPPNERT 239

RESULT 4  
; Sequence 12, Application US/9896913A  
; Patent No. US20020164600A1  
; GENERAL INFORMATION:  
; APPLICANT: Freeman, Gordon  
; APPLICANT: Chernova, Irene  
; APPLICANT: Malenkovich, Nelly  
; APPLICANT: Wood, Clive  
; TITLE OF INVENTION: PD-12 MOLECULES: NOVEL PD-1 LIGANDS AND  
; FILE REFERENCE: GNN-026A  
; CURRENT APPLICATION NUMBER: US/09/896, 913A  
; CURRENT FILING DATE: 2002-04-15  
; PRIORITY APPLICATION NUMBER: PD-12 MOLECULES: NOVEL PD-1 LIGANDS AND  
; PRIORITY FILING DATE: 2000-06-28  
; PRIORITY APPLICATION NUMBER: 60/270, 822  
; PRIORITY FILING DATE: 2001-02-23  
; PRIORITY APPLICATION NUMBER: 60/271, 114  
; PRIORITY FILING DATE: 2001-02-23  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 12  
; LENGTH: 290  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; o US-09-896-913A-12

Query Match 100.0%; Score 1096; DB 9; Length 290;  
Best Local Similarity 100.0%; Pred. No. 3e-73; Mismatches 0; Indels 0; Gaps 0;  
Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VEYGSNMITECKFPVKEQVOLDLALIIVWEMEDKNITQFVHGEEDLKVKQHSSYRQRARLLK 60  
Db 30 VEYGSNMTIECKFPVKEQVOLDLALIIVWEMEDKNITQFVHGEEDLKVKQHSSYRQRARLLK 89

QY 61 DOLSLGNALQITDVKLQDAGYRCMISYGADYKRITVKVNAPYNKINQRLILVVDVTS 120  
Db 90 DOLSLGNALQITDVKLQDAGYRCMISYGADYKRITVKVNAPYNKINQRLILVVDVTS 149

QY 121 EHELTCAEGYPAEVIWTSSDHQVLSGKTNTNSKREKEFLNFNTSLRINTTNEIFYC 180  
Db 150 EHELTCAEGYPAEVIWTSSDHQVLSGKTNTNSKREKEFLNFNTSLRINTTNEIFYC 209

QY 181 TFRRLDEEENHTAELVTPELPLAHPPNERT 210  
Db 210 TFRRLDEEENHTAELVTPELPLAHPPNERT 239

RESULT 5  
; Sequence 17, Application US/0915789A  
; Patent No. US20020168762A1  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Lieping  
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY

Query Match 100.0%; Score 1096; DB 9; Length 290;  
Best Local Similarity 100.0%; Pred. No. 3e-73; Mismatches 0; Indels 0; Gaps 0;  
Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VEYGSNMTIECKFPVKEQVOLDLALIIVWEMEDKNITQFVHGEEDLKVKQHSSYRQRARLLK 89  
Db 30 VEYGSNMTIECKFPVKEQVOLDLALIIVWEMEDKNITQFVHGEEDLKVKQHSSYRQRARLLK 89

QY 61 DOLSLGNALQITDVKLQDAGYRCMISYGADYKRITVKVNAPYNKINQRLILVVDVTS 120  
Db 90 DOLSLGNALQITDVKLQDAGYRCMISYGADYKRITVKVNAPYNKINQRLILVVDVTS 149

QY 121 EHELTCAEGYPAEVIWTSSDHQVLSGKTNTNSKREKEFLNFNTSLRINTTNEIFYC 180  
Db 150 EHELTCAEGYPAEVIWTSSDHQVLSGKTNTNSKREKEFLNFNTSLRINTTNEIFYC 209

TITLE OF INVENTION: MOLECULES  
FILE REFERENCE: 07039-219001  
CURRENT APPLICATION NUMBER: US 09/7915,789A  
PRIORITY APPLICATION NUMBER: US 60/220,991  
PRIORITY FILING DATE: 2000-07-27  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO 17  
LENGTH: 290  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-7915-789A-17

Query Match 100.0%; Score 1096; DB 9; Length 290;  
Best Local Similarity 100.0%; Pred. No. 3e-73; Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 VEGSNNTIECKFPEVKQDLALIVWEMEDKNIQFVHGEEDLKVOHSSYRQLRK 60  
30 VEYGSNNTIECKFPEVKQDLALIVWEMEDKNIQFVHGEEDLKVOHSSYRQLRK 89  
OY 61 DQLSLGNALQTDVKLQDAGYRCMTSYGGADYKRITVKVNAPYNKINQRILVDPVTS 120  
Db 90 DQLSLGNALQTDVKLQDAGYRCMTSYGGADYKRITVKVNAPYNKINQRILVDPVTS 149  
OY 121 EHELTCAQEGYPKAEVWTSSDHQVLSGKTNTNSKREKLENVTSLRINTTNEIFYC 180  
Db 150 EHELTCAQEGYPKAEVWTSSDHQVLSGKTNTNSKREKLENVTSLRINTTNEIFYC 209  
OY 181 TFRRLDPENHTAELVPELPLAHPNERT 210  
Db 210 TFRRLDPENHTAELVPELPLAHPNERT 239

## RESULT 6

US-09-796-858-42  
Sequence 42, Application US/09796858  
Patent No. US20020055139A1  
GENERAL INFORMATION:  
APPLICANT: Holtzman, Douglas  
TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC,  
TITLE OF INVENTION: PREVENTIVE, THERAPEUTIC, AND OTHER USES  
FILE REFERENCE: 7853-226-999  
CURRENT APPLICATION NUMBER: US/09/796,858  
CURRENT FILING DATE: 2001-03-01  
PRIOR APPLICATION NUMBER: 09/223,094

PRIOR FILING DATE: 1998-12-30  
PRIOR APPLICATION NUMBER: 09/223,546  
PRIOR FILING DATE: 1998-12-30  
PRIOR APPLICATION NUMBER: 09/224,246  
PRIOR FILING DATE: 1998-12-30  
PRIOR APPLICATION NUMBER: 09/312,359  
PRIOR FILING DATE: 1999-05-14  
PRIOR APPLICATION NUMBER: 09/336,536  
PRIOR FILING DATE: 1999-06-18  
PRIOR APPLICATION NUMBER: 09/342,687  
PRIOR FILING DATE: 1999-06-29  
PRIOR APPLICATION NUMBER: 09/399,723  
PRIOR FILING DATE: 1999-09-20  
PRIOR APPLICATION NUMBER: 09/471,179  
PRIOR FILING DATE: 1999-12-23  
PRIOR APPLICATION NUMBER: 09/474,072  
PRIOR FILING DATE: 1999-12-29  
PRIOR APPLICATION NUMBER: 09/572,002  
PRIOR FILING DATE: 2000-05-14  
PRIOR APPLICATION NUMBER: 09/597,993  
PRIOR FILING DATE: 2000-06-12  
PRIOR APPLICATION NUMBER: 09/599,596  
PRIOR FILING DATE: 2000-06-22  
PRIOR APPLICATION NUMBER: 09/606,565

## RESULT 7

US-09-875-338-2  
Sequence 2, Application US/09875338  
Patent No. US2002005024A1  
GENERAL INFORMATION:  
APPLICANT: MIKESELL, GLEN E.  
APPLICANT: CHANG, HAN  
APPLICANT: FINGER, JOSHUA N.  
APPLICANT: YANG, GUICHEN  
APPLICANT: LU, PIN  
APPLICANT: ZHOU, XIA-DI  
APPLICANT: PEACH, ROBERT  
TITLE OF INVENTION: BT7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR  
FILE REFERENCE: 3053-4071U2  
CURRENT APPLICATION NUMBER: US/09/875,338  
CURRENT FILING DATE: 2001-06-06  
PRIOR APPLICATION NUMBER: 60/272,107  
PRIOR FILING DATE: 2001-02-28  
PRIOR APPLICATION NUMBER: 60/209,811  
PRIOR FILING DATE: 2000-06-06  
NUMBER OF SEQ ID NOS: 94  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 2  
LENGTH: 290  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-875-338-2

Query Match 100.0%; Score 1096; DB 10; Length 290;  
Best Local Similarity 100.0%; Pred. No. 3e-73; Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 VEGSNNTIECKFPEVKQDLALIVWEMEDKNIQFVHGEEDLKVOHSSYRQLRK 60  
Db 30 VEYGSNNTIECKFPEVKQDLALIVWEMEDKNIQFVHGEEDLKVOHSSYRQLRK 89  
OY 61 DQLSLGNALQTDVKLQDAGYRCMTSYGGADYKRITVKVNAPYNKINQRILVDPVTS 120  
Db 90 DQLSLGNALQTDVKLQDAGYRCMTSYGGADYKRITVKVNAPYNKINQRILVDPVTS 149  
OY 121 EHELTCAQEGYPKAEVWTSSDHQVLSGKTNTNSKREKLENVTSLRINTTNEIFYC 180  
Db 150 EHELTCAQEGYPKAEVWTSSDHQVLSGKTNTNSKREKLENVTSLRINTTNEIFYC 209  
OY 181 TFRRLDPENHTAELVPELPLAHPNERT 210  
Db 210 TFRRLDPENHTAELVPELPLAHPNERT 239

Query Match 100.0%; Score 1096; DB 10; Length 290;  
Best Local Similarity 100.0%; Pred. No. 3e-73; Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 VEGSNNTIECKFPEVKQDLALIVWEMEDKNIQFVHGEEDLKVOHSSYRQLRK 60  
Db 30 VEYGSNNTIECKFPEVKQDLALIVWEMEDKNIQFVHGEEDLKVOHSSYRQLRK 89  
OY 61 DQLSLGNALQTDVKLQDAGYRCMTSYGGADYKRITVKVNAPYNKINQRILVDPVTS 120  
Db 90 DQLSLGNALQTDVKLQDAGYRCMTSYGGADYKRITVKVNAPYNKINQRILVDPVTS 149  
OY 121 EHELTCAQEGYPKAEVWTSSDHQVLSGKTNTNSKREKLENVTSLRINTTNEIFYC 180  
Db 150 EHELTCAQEGYPKAEVWTSSDHQVLSGKTNTNSKREKLENVTSLRINTTNEIFYC 209  
OY 61 DQLSLGNALQTDVKLQDAGYRCMTSYGGADYKRITVKVNAPYNKINQRILVDPVTS 120



QY 181 TFRRLPDEENITAELVYIPELPLAHPNERT 210 ; NUMBER OF SEQ ID NOS: 94  
 ||||||| ; SOFTWARE: PatentIn Ver. 2.1  
 ||||||| ; SEQ ID NO 5  
 Db 210 TFRRLPDEENITAELVYIPELPLAHPNERT 239 ; LENGTH: 480  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 ; OTHER INFORMATION: fusion construct

RESULT 11  
 US-10-002-775-4  
 ; Sequence 4, Application US/10002775  
 ; Patent No. US200202651A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Gordon Freeman  
 ; APPLICANT: Vassiliki Boussiotis  
 ; APPLICANT: Tatyana Chernova  
 ; APPLICANT: Nelly Malenkovich  
 ; TITLE OF INVENTION: NOVEL B7-4 MOLECULES AND USES THEREFOR  
 ; FILE REFERENCE: GNN-004ADV  
 ; CURRENT APPLICATION NUMBER: US/10/002,775  
 ; CURRENT FILING DATE: 2001-11-02  
 ; PRIOR FILING DATE: 2000-08-23  
 ; PRIOR APPLICATION NUMBER: 60/150,390  
 ; PRIOR FILING DATE: 1999-08-23  
 ; NUMBER OF SEQ ID NOS: 11  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 4  
 ; LENGTH: 290  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-002-775-4

Query Match 100.0%; Score 1096; DB 12; Length 290;  
 Best Local Similarity 100.0%; Pred. No. 3e-73; Matches 210; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VEYGSNMTEICKFPVERQKOLDIAALITYWEMEDKNITIQFVHGEDDLKVQHSSYRORALLK 60  
 ||||||| ; Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Db 30 VEYGSNMTEICKFPVERQKOLDIAALITYWEMEDKNITIQFVHGEDDLKVQHSSYRORALLK 89

QY 61 DQLSGNALQITDVKLQDAGYRCMISYGADYKRITVKYNAPYKINQRLILVPPTS 120  
 ||||||| ; Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Db 94 DQLSGNALQITDVKLQDAGYRCMISYGADYKRITVKYNAPYKINQRLILVPPTS 153

QY 121 EHELTCAEGYPKAEVITWTSDDHQVLSGKTWNSKREEKFNFNTSLRINTTNEIFYC 180  
 ||||||| ; Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Db 154 EHELTCAEGYPKAEVITWTSDDHQVLSGKTWNSKREEKFNFNTSLRINTTNEIFYC 213

QY 181 TFRRLPDEENITAELVYIPELPLAHPNERT 210  
 ||||||| ; Matches 214; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Db 214 TFRRLPDEENITAELVYIPELPLAHPNERT 243

RESULT 12  
 US-09-875-338-5  
 ; Sequence 5, Application US/09885338  
 ; GENERAL INFORMATION:  
 ; APPLICANT: GLEN E. MIKESELL  
 ; APPLICANT: CHANG HAN  
 ; APPLICANT: FINGER, JOSHUA N.  
 ; APPLICANT: YANG, GUICHEN  
 ; APPLICANT: LU, PIN  
 ; APPLICANT: ZHOU, XIA-DI  
 ; APPLICANT: PEACH, ROBERT  
 ; TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR CURRENT MODULATION  
 ; FILE REFERENCE: 3053-4071US2  
 ; CURRENT APPLICATION NUMBER: US/09/875, 338  
 ; CURRENT FILING DATE: 2001-06-06  
 ; PRIOR APPLICATION NUMBER: 60/272, 107  
 ; PRIOR FILING DATE: 2001-02-28  
 ; PRIOR APPLICATION NUMBER: 60/209, 811  
 ; PRIOR FILING DATE: 2000-06-06

RESULT 13  
 US-10-068-215-2  
 ; Sequence 2, Application US/10068215  
 ; Patent No. US200206000A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Clive Wood  
 ; APPLICANT: Gordon Freeman  
 ; TITLE OF INVENTION: PD-1, A Receptor For B7-4, and Uses Therefor  
 ; FILE REFERENCE: GNN-004B  
 ; CURRENT APPLICATION NUMBER: US/10/068, 215  
 ; CURRENT FILING DATE: 2002-02-06  
 ; PRIOR APPLICATION NUMBER: 09/645, 069  
 ; PRIOR FILING DATE: 2000-08-23  
 ; PRIOR APPLICATION NUMBER: 60/150, 390  
 ; PRIOR FILING DATE: 1999-08-23  
 ; PRIOR APPLICATION NUMBER: 60/164, 897  
 ; PRIOR FILING DATE: 1999-11-10  
 ; NUMBER OF SEQ ID NOS: 23  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 2  
 ; LENGTH: 245  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-068-215-2

Query Match 93.9%; Score 1029; DB 9; Length 245;  
 Best Local Similarity 100.0%; Pred. No. 1.9e-60; Matches 198; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VEYGSNMTEICKFPVERQKOLDIAALITYWEMEDKNITIQFVHGEDDLKVQHSSYRORALLK 60  
 ||||||| ; Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Db 30 VEYGSNMTEICKFPVERQKOLDIAALITYWEMEDKNITIQFVHGEDDLKVQHSSYRORALLK 89

QY 61 DQLSGNALQITDVKLQDAGYRCMISYGADYKRITVKYNAPYKINQRLILVPPTS 120  
 ||||||| ; Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Db 90 DQLSGNALQITDVKLQDAGYRCMISYGADYKRITVKYNAPYKINQRLILVPPTS 149

QY 121 EHELTCAEGYPKAEVITWTSDDHQVLSGKTWNSKREEKFNFNTSLRINTTNEIFYC 180  
 ||||||| ; Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Db 150 EHELTCAEGYPKAEVITWTSDDHQVLSGKTWNSKREEKFNFNTSLRINTTNEIFYC 209

